1884/85

No. 5019 I.

GOVERNMENT OF PUNJAB,

PUBLIC WORKS DEPARTMENT.

IRRIGATION BRANCH.

Proceedings of the Hon'ble the Lieutenant-Governor of the Punjab and its Dependencies, in the Public Works Department,—dated 17th November 1885.

READ—

Revenue Report of the Chief Engineer, Irrigation Works, Punjab, for the year 1884-85.

RESOLUTION.—The result of the working of the Punjab Canals for the Financial year was as follows :—

1. The percentage of the net revenue on the Capital invested is by assessments 1·00 and by collections 0·70 as compared with 0·95 and 1·35, which were the corresponding figures for the previous year.

2. The area irrigated in the year under review was 1,614,288, and in the previous year 1,652,068 acres. On the Western Jumna Canal there was a large decrease of 193,218 and on the Bári Doáb Canal of 14,098 acres; but on the Sirhind Canal the increase was 31,072 acres, and 138,464 acres on all the series of Inundation Canals.

3. The Capital invested by Government amounted at the close of the year to Rs. 5,30,47,419, to which must be added Rs. 1,12,10,392 contributed by Native States to the Sirhind Canal. The total money invested was therefore Rs. 6,42,57,811, of which Rs. 31,36,983 have been expended on a Famine Relief and Insurance work—the Swát River Canal, which was opened on the 12th February by the Hon'ble the Lieutenant-Governor, but has as yet earned no revenue.

4. The Capital expenditure during the year was Rs. 27,14,575. The surplus revenue after paying all charges and interest on the Productive Public Works expenditure in the Province amounted to Rs. 3,01,208, but in this sum Rs. 1,947 is included on account of adjustments of previous year's account: if this be deducted the net profit is Rs. 2,99,261. The total surplus receipts now amount to Rs. 2,10,46,809.

PERMANENT CANALS.

5. The Capital expenditure during the year on the Permanent Canals in operation was Rs. 14,42,774, and the Capital invested up to the end of the year is Rs. 4,65,20,121. The gross revenue collected was Rs. 30,22,956, the working expenses were Rs. 11,22,239, and the interest charge Rs. 17,46,627. The surplus was, therefore, Rs. 1,54,090, which gives a net profit of Rs. 0·33 per cent. on the Capital invested. The revenue assessed for the year was Rs. 25,93,366, and the net profit Rs. 2,75,500, or Rs. 0·59 per cent., after defraying all charges against both Capital and Revenue.

INUNDATION CANALS.

6. There is a decrease of Rs. 4,117 in the Capital Account of the Inundation Canals in operation due to fluctuations of the suspense balances and sales of stores from the Madhopur Workshops. The total capital invested to the end of the year was Rs. 18,93,915.

7. The revenue collected during the year was Rs. 9,87,601, the working expenses Rs. 8,02,979; the profit was, therefore, Rs. 1,84,622, or 9·74 per cent. on the Capital invested.

8. The revenue assessed for the year was Rs. 10,13,026, which will give a net profit of Rs. 2,10,047, or 11·09, after paying working expenses.

9. The following table shows the area irrigated on Permanent and Inundation Canals during the year under review and for four previous years :—

Canals.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Acres.	Acres.	Acres.	Acres.	Acres.
Permanent	692,072	868,316	727,858	668,547	698,631
Inundation	922,216	783,752	955,414	1,019,178	867,246
Total Acres ...	1,614,288	1,652,068	1,683,272	1,687,725	1,565,877

As before stated, there was a decrease in the areas irrigated by the Western Jumna and Bari Doáb Canals, and an increase on the Sirhind Canal as well as on all the Inundation Canals.

10. The investigations mentioned in paragraph 8 of the Resolution on the Report for 1883-84 of a scheme for a new Inundation Canal from a branch of the Indus at Leiah showed that, owing to the fluctuations in the supply and to the fact that the water in the branch was already largely used for irrigation purposes, a canal to water the high lands of the Muzaffargarh District must start from some point much higher up the river. The project is still under investigation. A project and estimate for an Inundation Canal from the Jhelum has been received and is under consideration. The prospects of the project are good; but it appears possible that some further investigation may be necessary before definite proposals can be submitted for approval.

11. With reference to the last sentence of paragraph 6 of the review by the Government of India of the Report for 1883-84, attention is invited to the explanation given by the Superintending Engineer, Bári Doáb Canal, contained in paragraph 46 of the Chief Engineer's report. There is no doubt that, as therein stated, the duty of water must vary with differing circumstances of climate and soil and spring-level. It is known that in even nearly rainless tracts where the soil is a stiff loam, two or three waterings will suffice to bring a wheat crop to maturity, whilst four to six waterings would be required to perfect a similar crop in lighter soils situated in parts of the country which have a much better rainfall. It may be noted that in all the later projects for new canals, care has been taken to select tracts where the soil is known to be good, so that a high duty may be obtained from the water.

WESTERN JUMNA CANAL.

12. There was a decrease of 193,218 acres in the area irrigated by this Canal; the saturation of the soil by the heavy rains at the close of the monsoon and the favourable rainfall during the rabbi are the reasons for this falling-off.

13. The collections and assessments show a net profit of 7·99 and and 2·86 per cent.; the percentages of the previous year were 6·55 and 9·08.

14. The cost of Establishment was Rs. 0·91 per acre against Rs. 0·52 in the previous year, and the working expenses amounted to Rs. 1·71 per acre against Rs. 1·01 in the year 1883-84. This increase in the rates is due to the falling-off of nearly two lakhs of acres in the area irrigated.

15. The balance of profit at the credit of this Canal at the close of this year is Rs. 2,79,11,042.

BARI DOAB CANAL.

16. The area irrigated by this Canal was 376,762 acres, or 14,098 less than in the previous year. The decrease in the area irrigated during the kharíf crop was due to seasonable rainfall during the months of July and August. The area irrigated in the rabbi was greater than that of the two preceding years, and was nearly equal to that of the year 1881-82.

17. The net profit from the collections of the year amounted to 1·39 against 1·59 per cent. in the previous year. The profit by assessments was 1·69, and in the previous year 1·43 per cent. The collections had been swollen in the previous year by the credit of arrears of water-advantage rate on assigned lands.

18. The charge for establishment and working expenses was Rs. 0·506 and Rs. 1·33 per acre against Rs. 0·598 and Rs. 1·44 in the previous year. The decrease was due to less expenditure on maintenance.

19. The charges and interest at the debit of this Canal at the close of the year amounted to Rs. 51,06,866.

LOWER SOHAG AND PARA CANAL.

20. This Canal was opened for irrigation for a short length on the 23rd October 1884, and water was given for the rabbi crop, in which 645 acres were irrigated and Rs. 307 assessed.

SIRHIND CANAL.

21. The area irrigated was 36,102 acres against 5,030 acres in the previous year.

22. The loss by collection was 4·28, and by assessments 4·08 per cent. on the capital invested.

23. The charges for Establishment and working expenses were Rs. 0·99 and Rs. 4·02 per acre, against Rs. 1·36 and Rs. 3·48 in the previous year.

24. The charges and interest at the debit of this Canal at the close of the year amounted to Rs. 64,01,514.

UPPER SUTLEJ INUNDATION CANALS.

25. The area irrigated by these Canals was 90,074 acres against 71,374 in the previous year. The increase was due to the river keeping at a higher level during the irrigating season.

26. The loss by collection was 3·13 against a profit of 10·16 per cent. in the previous year, but the income for the latter year was swollen by the inclusion in the accounts of Rs. 74,036 on account of adjustments. By assessments there was a loss of 1·27 against 8·87 per cent. in the previous year: this improvement is due to an increase in the area irrigated and to a diminution of the working expenses.

27. The charge for Establishment and working expenses was Rs. 0·46 and Rs. 1·30 per acre repectively, against Rs. 0·68 and Rs. 1·86 in the previous year.

28. The debit balance of working expenses at the end of the year was Rs. 51,871.

LOWER SUTLEJ AND CHENAB INUNDATION CANALS.

29. The area irrigated by these Canals was 42,631 acres more than in the previous year, due, as in the case of the Upper Sutlej Inundation Canals, to higher water-levels in the Sutlej and Chenab Rivers during the irrigating season.

30. The profit was 199·45 against 194·42 per cent. in the previous year; in the latter figure the arrears credited in that year's account have been excluded.

31. The cost of Establishment was Rs. 0·20 per acre against Rs. 0·24 in the previous year, and that of working expenses Rs. 1·13 per acre against Rs. 1·40 in 1883-84; the decrease is due to the increase in the area irrigated and to a diminution of the maintenance charges.

32. The share of Land Revenue was Rs. 3,18,035 against Rs. 3,18,507 in the previous year.

33. The cost of irrigation to the cultivators decreased from Rs. 1·61 to Rs. 1·46 per acre owing to the increase in the area irrigated.

34. The balance at credit of these Canals at the end of the year was Rs. 50,52,719.

INDUS INUNDATION CANALS.

35. The area irrigated by these Canals was 186,302 acres against 150,418 acres in the previous year; the increase was due to a plenteous and well-distributed rainfall assisted by a better supply of water in the canals.

36. There was a loss of 3·46 against 10·18 per cent. in the previous year. This improvement was due to the absence of the abnormal maintenance charges referred to in paragraph 24 of the previous year's Resolution.

37. The cost of Establishment and working expenses was Rs. 0·41 and Rs. 1·36 per acre, against Rs. 0·57 and Rs. 2·04 per acre in the previous year; the decrease in rate being due to the cause stated in the previous paragraph.

38. The share of Land Revenue was Rs. 1,59,728 against Rs. 1,57,026 in the previous year.

39. The balance at credit of these Canals up to the end of the year is Rs. 27,678.

MUZAFFARGARH INUNDATION CANALS.

40. The area irrigated during the year was 258,035 acres, being 31,536 acres more than in the previous year; the increase was due to an improvement in the supply in all the Canals and to a better rainfall.

41. The profit for the year was Rs. 1,81,388 against Rs. 1,84,599 in the previous year, excluding the adjustments for which credit was taken in the latter year.

42. The cost of Establishment and working expenses was Rs. 0·18 and Rs. 0·75 per acre, against Rs. 0·20 and Rs. 0·78 in the previous year; this decrease was due to the increased area irrigated.

43. The cost of irrigation to the cultivators was Rs. 1·32 per acre against Rs. 1·52 in the previous year.

44. The share of Land Revenue was Rs. 2,40,660 against Rs. 2,42,112 in the previous year.

45. The balance at credit of these Canals at the end of the year is Rs. 9,14,050.

SHAHPUR INUNDATION CANALS.

46. The area irrigated was 14,553 acres against 5,485 acres in the previous year; the increase was due to the zemindárs having prepared their lands in time for the kharíf crop, which was not the case last year.

47. The percentage of profit on the capital outlay was 13·91 against 47·29 in the previous year; the large percentage in the year 1883-84 was caused by the realization of water-rate due from the previous year.

48. The balance of profit at the credit of these Canals at the end of the year is Rs. 76,166.

GENERAL.

49. A classified statement of crops irrigated in each Canal is appended to, and lithographed maps of Canals in the various Irrigation Circles are bound up with the Chief Engineer's Report.

50. Government of India's letter No. 166 I., dated 11th July 1885, directing the adoption of uniform statistical statements in the Revenue Report, was received too late to be adopted for the Report of 1884-85.

By order of the Hon'ble the Lieutenant-Governor,

R. HOME, Colonel, R.E.,

Joint Secy. to Government, Punjab,

P. W. D., Irrigation Branch.

PUBLIC WORKS DEPARTMENT, PUNJAB,

IRRIGATION BRANCH.

CHIEF ENGINEER'S REVENUE REPORT

FOR THE YEAR 1884-85.

WESTERN JUMNA CANAL.

1. The capital expenditure during the year amounted to Rs. 5,45,952, which raised the capital invested up to the end of the year to Rs. 1,01,18,236.

2. The expenditure during the year consisted of—

	Rs.	Rs.
DIRECT CHARGES.		
I.—Works	4,09,005	
II.—Establishment	1,04,893	
III.—Tools and Plant	5,884	
IV.—Suspense Accounts	6,036	
V.—Receipts on Capital Account	—665	
		5,25,153
INDIRECT CHARGES.		
Capitalization of abatement of Land Revenue	6,114	
Leave and Pension Allowances	14,685	
		20,799
Total		5,45,952

3. The charges for works consisted of—

		Rs.	Rs.	Rs.
	MAIN LINE.			
(2).	Main Canal and Branches—			
	Radaur bridge		70	
(3).	Drainage and Protective works—			
	Main Drain No. I	3,220		
	Ditto No. II	14,618		
	Ganauli and Jarauda Cuts	873	18,711	18,781
	NEW MAIN LINE.			
(2).	Main Canal and Branches—			
	Grand Trunk Road Fall and Bridge ...	509		
	Raising banks and regrading Line ...	58,948		
	Maintenance	3,366		
	Other items	140		
			62,963	
(3).	Distributaries—			
	New Rájbahas		36,319	
				99,282
	NEW DELHI BRANCH.			
(2).	Main Canal and Branches—			
	Baoli Bridge	979		
	Mahlana Bridge	255		
	Halálpur Bridge	287		
	Kakroi Lock, Fall and Bridge	716		
	Hulaheri ditto	620		
	Jua ditto	270		
	Earth-work	11,709		
	Maintenance	15,884		
	Other items	248		
			30,968	
(3).	Distributaries—			
	New Rájbahas		1,14,209	
(4).	Drainage and Protective Works—			
	Kharkhauda Drain	1,418		
	No. IV Drainage Nai Nalla	12,784		
	Main Drain No. 6	346		
	Ditto No. 8	300		
	Other items	124		
			14,972	
				1,60,149
	Carried over			2,78,212

		Rs.	Rs.
Brought forward			2,78,212
NEW HANSI BRANCH.			
(2). Main Canal and Branches—			
Safidon Fall and Bridge	476		
Lock at Munak	172		
Lock at Mor Májra	207		
Earth-work	5,827		
Plantations	176		
Maintenance	3,841		
Other items	[illegible]		
		10,788	
(3). Distributaries—			
New Rájbahas		27,600	38,388
NEW BUTANA BRANCH.			
(2). Main Canal and Branches—			
Earth-work	106		
Maintenance	144	250	
(3). Distributaries—			
Sangi Rájbaha		1,237	1,487
(2). Main Canal and Branches—			
Okla Navigation Channel		...	90,918
Total		...	4,09,005

4. The charge for Establishment was 25·6 per cent. during the year against 26·2 per cent. in the previous year; the high percentage was due, as was the case last year, to the Special Works Establishment entertained in the New Delhi Branch Division to the end of November 1884, when the Division was amalgamated with the Delhi Division.

5. The raising of the banks of the old canal above Indri and the regrading of the first 12 miles of the Main Line were well advanced and the former was practically completed. The New Delhi Branch from Rer to Jua and its Distributaries were completed and opened in February 1885. The tail reach between the old Hánsi Canal and Safidon, as well as the new *Butána Branch Canal Head* and Jínd Rájbahas, No. 2 and 3, were opened in February 1885, and the Balla Canal has been finally closed. The tail lock of the Okla Navigation Channel was completed in January and communication by canal established between Delhi and Agra.

6. The Revenue Account is as follows:—

EXPENDITURE.

	Rs.	Rs.	Rs.
Extensions and Improvements		...	23,511
Maintenance and Repairs		...	1,51,125
Compensation ...		...	3,292
Establishment—			
Direction		26,360	
Executive		1,13,350	
Medical		1,872	
Revenue ...	66,094		
Fees on collection	46,801		
		1,12,895	
			2,54,477
Tools and Plant—			
Direction ...		56	
Executive ...		3,152	
			3,208
Refunds of Revenue ...		...	6,157
Total		...	4,41,770
Indirect charges—			
Capitalized abatement of Land Revenue ...		25	
Leave and Pension allowances		35,627	
			35,652
Total Working Expenses		...	4,77,422
Balance Profit ...		...	11,83,275
Total ...		...	16,60,697

RECEIPTS.

	Rs.
Water-rates	11,84,238
Owner's rate	3,56,595
Miscellaneous	61,539
Total ...	16,02,372
Enhanced Land Revenue in the districts where owner's rates are not yet in force ...	58,325
Total ...	16,60,697

7. The balance of profit was Rs. 11,83,275 or 11·69 per cent. on the capital invested against 10·17 per cent. in the previous year.

8. The interest charge for the year was Rs. 3,74,314 ; deducting this the net profit was Rs. 8,08,961 or Rs. 7·99 per cent. on the capital against 6·51 per cent. in the previous year. The accumulated profits now amount to Rs. 2,79,11,042.

9. There was a decrease of Rs. 15,263 under "Extensions and Improvements" owing to the heavier works commenced in the preceding year having been nearly completed in the year, and to diminished expenditure on improving buildings and remodelling and improving certain rájbahas in the Hánsi Division.

10. The cost of repairs was Rs. 7,190 in excess of that of last year in consequence of the larger expenditure incurred on the training works in the river at the head of the canal, and owing to some exceptional repairs having been found necessary to the buildings in the Delhi Division, and to additional expenditure on the jungle clearance of the Delhi and Rohtak Branches.

11. The charge for establishment during the year was Rs. 6,859 in excess of that of last year; this is mainly due to a larger proportion of the establishment having been charged to revenue on account of the decrease in the expenditure on works. There was a further increase of Rs. 7,807 on collection fees owing to the increase in water revenue.

12. The following table shows in detail the cost of the establishment for five years :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
Engineering.	Rs.	Rs.	Rs.	Rs.	Rs.
Direction	26,360	30,882	32,583	27,654	26,586
Executive	1,13,350	1,04,205	1,24,233	1,09,677	1,10,875
Medical	1,872	1,564	1,200	1,708	1,863
Total ...	1,41,582	1,36,651	1,58,016	1,39,039	1,39,324
Revenue.					
Collection and Police	66,094	71,973	71,249	68,002	65,158
Fees to Lambardárs and Patwáris	46,801	38,994	33,049	33,249	24,092
Total ...	1,12,895	1,10,967	1,04,298	1,01,251	89,250
Plantations	...	...	...	...	187
Grand Total ...	2,54,477	2,47,618	2,62,314	2,40,290	2,28,761
	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated	279,208	472,426	374,243	300,545	265,557
Rate per acre	Rs. 0·91	Rs. 0·52	Rs. 0·70	Rs. 0·80	Rs. 0·86

The increase in rate is due to the increase in establishment and to the falling-off of nearly two lakhs of acres in the area irrigated.

13. The following table shows the working expenses for five years :—

Details.	1884-85	1883-84.	1882-83	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rs.	Rs.
I A. Extensions and Improvements ...	23,511	38,774	31,276	24,465	16,321
I B. Maintenance and Repairs	1,51,125	1,43,935	1,39,516	1,16,867	1,20,151
I C. Compensation	3,292	2,937	2,109	4,895	1,058
II. Establishment including Fees on Collection	2,54,477	2,47,618	2,62,314	2,40,290	2,28,761
III. Tools and Plant	3,208	7,242	9,392	4,277	7,052
IV. Profit and Loss	...	...	6	...	...
V. Refunds of Revenue	6,157	2,344	1,941	636	93
Total ...	4,41,770	4,42,850	4,46,554	3,91,430	3,73,436
Book Charges	35,652	34,814	25,240	39,733	34,818
Total working expenses ...	4,77,422	4,77,664	4,71,794	4,31,163	4,08,254
	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated	279,208	472,426	374,243	300,545	265,551
	Rs.	Rs.	Rs.	Rs.	Rs.
Rate per acre excluding book charges ...	1·58	0·94	1·19	1·30	1·41
Rate per acre including ditto ...	1·71	1·01	1·26	1·43	1·54

The increase in rate is due to the falling-off in the area irrigated as noted in the foregoing para.

14. The following table shows the results of the operations for five years under each of the heads of collection and assessments :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
Collections.	Rs.	Rs.	Rs.	Rs.	Rs.
Water rates from irrigation	11,84,238	9,99,787	8,32,845	8,67,013	6,13,776
Owner's rate „	3,56,595	2,83,611	2,55,189	2,56,191	2,29,371
Miscellaneous	61,539	1,08,998	71,460	78,046	66,981
Total ...	16,02,372	13,92,396	11,59,494	12,01,250	9,10,128
Enhanced Land Revenue	58,325	62,646	58,363	38,088	9,07,615
Grand Total ...	16,60,697	14,55,042	12,17,857	12,39,338	18,17,743
Assessments.					
Water rates from irrigation	7,87,267	11,64,030	9,85,785	7,79,296	6,79,867
Owner's rate „	2,33,607	3,65,117	3,07,177	2,36,654	1,80,539
Miscellaneous	61,539	1,08,998	71,460	78,046	66,981
Total ...	10,82,413	16,38,145	13,64,422	10,93,996	9,27,387
Enhanced Land Revenue	58,325	58,340	58,363	50,444	
Grand Total ...	11,40,738	16,96,485	14,22,785	11,44,440	10,29,669
Capital invested	1,01,18,236	95,72,284	88,49,523	82,92,972	78,35,315
Working Expenses	4,77,422	4,77,664	4,71,794	4,31,163	4,08,254
Profit on Capital.					
Collections	11,83,275	9,77,378	7,46,063	8,08,175	14,09,489
„ per cent.	11·69	10·21	8·42	9 74	17·98
Assessments	6,63,316	12,18,821	9,50,991	7,13,277	6,21,415
„ per cent.	6 56	12·73	10·75	8·60	7·93
Interest charges for the year	3,74,314	3,49,824	3,24,968	3,05,377	3,22,554

There was an increase in the collection as compared with that of the previous year of Rs. 2,05,655, owing to the large increase in the area irrigated during the rabbi crop of that year, the realizations of which appear in the accounts of the following year ; but by assessments there was the large falling-off of Rs. 5,55,747, due to a decrease in the area irrigated during the rabbi crop in consequence of heavy rain-fall early in the season which encouraged the cultivators to sow bárâni lands, and seasonable rains in January, which enabled them to do without the second watering from the canal. In the Jínd State the Executive Engineer states that there was a decrease of 30,390 acres on the area *of* the previous year.

The areas irrigated in this State were—

Kharif	...	30,697 acres.
Rabbi	...	16,762 „
Total	...	47,459 „

The favourable rain-fall during the rabbi is assigned as the chief reason for this falling off. Some decrease in the irrigation is also attributed to the great sickness that prevailed in the canal villages during the months of September, October and November, which hindered field operations, more especially the cutting of the kharíf crop. The stricter enforcement of the kiári system during the rabbi is also said to have assisted in restricting the areas under canal irrigation.

15. The following table compares the various items of Miscellaneous Revenue for five years :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rs.	Rs.
III. Miscellaneous receipts by sale of water ...	9,577	7,562	3,262	6,734	4,074
IV. Water-supply of towns	1,646	2,022	3,175	2,870	2,109
V. Receipts from plantations	17,112	18,325	17,146	12,032	11,711
VI. Receipts from other canal produce ...	2,898	2,861	2,038	2,710	1,608
VII. Water-power	10,114	15,533	18,545	16,366	18,952
VIII. Navigation receipts	12,849	53,020	18,550	29,333	17,893
IX. Rents of buildings	1,301	1,109	1,022	1,132	928
X. Fines	1,753	3,617	1,805	1,656	3,097
XI. Miscellaneous and other receipts ...	4,289	4,949	5,917	5,213	6,609
Total ...	61,539	1,08,998	71,460	78,046	66,981

The receipts from plantations, though less than those of the previous year, were nearly the same in amount as those of the year before. Such fluctuations must be expected. There was a decrease under the head of water-power, due to a remission of mill-rent for the previous year having been granted during the year under review, and to the closure of the canal during January and February 1885. The decrease in Navigation receipts was caused chiefly by this closure of the canal, the rafts which would otherwise have entered the canal having followed the river course. The increase in the rent of buildings resulted from the canal chowkis in the Delhi Division having been occupied nearly the whole year. The falling-off in the fines was due to less charges having been realized on account of waste of water, owing to the small amount of irrigation in the rabbi and to the diminution in the number of cases in which judicial fines were inflicted. The trifling increase under the head Miscellaneous receipts by sale of water and on receipts from other canal produce, and the decrease under water-supply for domestic purposes as well as miscellaneous, call for no special remarks.

16. The balance of occupier's and owner's rates outstanding was Rs. 19,844 and Rs. 11,475, against Rs. 13,958 and Rs. 8,136 respectively in the previous year.

17. The following table shows the working of the canal for the last five years :—

Particulars.	1884-85.		1883-84.		1882-83.		1881-82.		1880-81.	
Water Rent.	Rs.		Rs.		Rs.		Rs.		Rs.	
Kharíf ...	6,09,955		5,74,769		5,44,451		5,02,272		4,14,391	
Rabbi ...	1,77,312		5,89,261		4,41,334		2,77,024		2,65,477	
Total ...	7,87,267		11,64,030		9,85,785		7,79,296		6,79,868	
Area irrigated.	Acres.		Acres.		Acres.		Acres.		Acres.	
Kharíf ...	199,516		202,323		172,753		167,721		144,668	
Per cent. ...	71·5		42·8		46·2		55·8		54 5	
Rabbi ...	79,692		270,103		201,490		132,824		120,883	
Per cent. ...	28·5		57·2		53·8		44·2		45·5	
Total ...	279,208		472,426		374,243		300,545		265,551	
Double-cropped land ...	16,350		57,078		45,707		19,389		18,024	
Per cent. ...	5·8		12·08		12 2		6·5		6·8	
	Inches.		Inches.		Inches.		Inches.		Inches.	
Rain-fall ...	16·50—62 41		7·83—38·53		12·70—56·45		8·77—43·73		11·3—41 48	
Supply entering canal.	Cubic feet.		Cubic feet.		Cubic feet.		Cubic feet.		Cubic feet.	
Kharíf ...	2,122		2,724		2,593		2,481		2,318	
Rabbi ...	982		2,230		1,994		2,018		1,924	
Supply utilized.										
Kharíf ...	1,799		2,279		2,333		2,050		2,016	
Rabbi ...	681		1,832		1,788		1,653		1,418	
Loss of water.										
Kharíf ...	323		445		260		431		302	
Rabbi ...	301		398		206		365		506	
Duty of water per cubic foot—										
Entering canal.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.
Kharíf ...	94	287	74	211	66	210	68	202	62	179
Rabbi ...	81	131	121	264	101	221	66	137	63	138
Utilized.										
Kharíf ...	111	339	89	252	74	233	81	245	72	206
Rabbi ...	117	260	147	322	113	246	80	168	85	187
Average water rate per acre irrigated.	Rs.		Rs.		Rs.		Rs.		Rs.	
Kharíf ...	3·1		2·8		3·2		2·99		2·86	
Rabbi ...	2 2		2·2		2·19		2·09		2·20	
Number of villages irrigating.	No.		No.		No.		No.		No.	
Kharíf ...	715		729		683		683		646	
Rabbi ...	443		683		653		637		568	

The small demand for water during the rabbi crop explains the falling-off in the duty per cubic foot in the rabbi season.

18. The proportion of flow to lift irrigation is given below for the last five years :—

Particulars.			1884-85. Kharif.	1884-85. Rabbi.	1883-84. Kharif.	1883-84. Rabbi.	1882-83. Kharif.	1882-83. Rabbi.	1881-82. Kharif.	1881-82. Rabbi.	1880-81. Kharif.	1880-81. Rabbi.
Flow ...	Area	acres	191,444	73,445	192,378	242,539	166,032	182,733	161,706	118,236	138,074	107,5 7
	Per cent.	...	95·9	92·1	95·0	89·8	96·1	90·7	94·6	89·0	95·0	89·0
Lift ...	Area	acres	8,072	6,247	9,945	27,564	6,721	18,757	6,015	14,588	6,594	13,306
	Per cent.	...	4·1	7·9	5·0	10·2	3·9	9·3	5·4	11·0	5·0	11·0
	Total	...	199,516	79,692	202,323	270,103	172,753	201,490	167,721	132,824	144,668	120,883
			279,208		472,426		374,243		300,545		265,551	

19. The percentage of each class of crop is given below :—

Class.	1884-85. Area.	1884-85. Percentage.	1883-84. Area.	1883-84. Percentage.	1882-83. Area.	1882-83. Percentage.	1881-82. Area.	1881-82. Percentage.	1880-81. Area.	1880-81. Percentage.
	Acres.		Acres.		Acres.		Acres.		Acres.	
Class I	54,329	19·5	38,892	8·2	50,698	13·[illegible]	39,680	13·2	27,229	10·2
Do. II	45,452	16·3	64,796	13·7	53,327	14·3	49,007	16·3	54,129	20·4
Do. III	159,472	57·1	337,066	71·4	253,643	67·7	186,597	62·1	164,320	61·9
Do. IV	13,511	4·8	20,547	4·4	7,917	2·2	6,853	2·3	14,751	5·6
Do. V	6,444	2·3	11,125	2·3	8,658	2·3	18,408	6·1	5,122	1·9
Total ...	279,208	...	472,426	...	374,243	...	300,545	...	265,551	...

20. The area of the principal crops was as follows :—

Crops.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Acres.	Acres.	Acres.	Acres.	Acres.
Sugar-cane	50,592	35,240	47,247	36,269	23,846
Rice	41,162	51,936	44,960	43,376	48,372
Cotton	52,691	68,770	52,461	60,485	44,213
Wheat	61,537	199,727	145,020	98,335	93,644

The area under sugar-cane more than recovered the decrease of last year ; that under rice and cotton showed a considerable falling-off as compared with

the area last year; and the considerable and favourable rain-fall during the rabbi season accounts for the falling-off in the irrigation of the wheat crop.

21. The following table shows the cost of maintenance per mile of canal and distributaries for a period of five years :—

Particulars.		1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
Canal ...	Rupees ... / Miles ...	77,321 / 423 = 182·79	76,431 / 469 = 162·97	74,249 / 463 = 160·36	63,884 / 463 = 133·95	46,637 / 463 = 100·73
Rájbahas ...	Rupees ... / Miles ...	25,215 / 749 = 33·66	34,178 / 701 = 48·76	22,826 / 635 = 35·95	26,550 / 635 = 41·81	19,920 / 625 = 31·87

There has been a considerable change in the length of canal and distributaries during the year owing to the closure of the Balla Canal and the upper portion of the Delhi Canal and the opening of a portion of the new Delhi Branch as well as several new distributaries. The Rohtak Canal has ceased to exist as a canal and has been taken up by the Madlauda, Gohána and Rohtak Rájbahas. The Okla Navigation Channel has been included under the head of canals, although it is not an irrigating channel, and 48 miles have been added to the length of the Rájbahas. The increase in the cost of repairs per mile of canal is due to the shorter length over which it is to be distributed and the heavier repairs incurred on the newly-opened canal, as was anticipated last year. The cost per mile of Rájbahas has decreased since the new Delhi Branch was opened.

22. The cost of measurements and preparation of demand statements was as follows :—

Particulars.		Area measured.				Demand Statement.					
		Kharif.		*Rabbi.*		*Last batch submitted.*		*Kharif.*		*Rabbi.*	
		Area and amount.	Rate per 100 acres.	Area and amount.	Rate per 100 acres.	Kharif.	Rabbi.	Cost.	Rate per 100 acres.	Cost.	Rate per 100 acres.
			Rs.		Rs.			Rs.	Rs.	Rs.	Rs.
Karnál Division... ...	Acres / Rs.	17,146 / 55	0·32	5,653 / 27	0·47	15th December 1884...	21st May 1885 ...	39	0·22	24	0·42
Hánsi "	Acres / Rs.	95,236 / 1,311	1·37	62,169 / 665	1·07	9th ditto ...	9th ditto ...	770	1·07	725	1·16
Delhi "	Acres / Rs.	87,134 / 834	0·95	11,870 / 157	1·32	17th November 1884	15th ditto ...	466	0·53	105	0 88
Whole canal	Acres / Rs.	199,516 / 2,200	1·10	79,692 / 849	1·06	...	...	1,275	0·63	854	1·07
Average for five years ...	Acres / Rs.	886,981 / 12,806	1·46	804,992 / 10,871	1·35	...	...	6,219	0·70	5,411	0·67

The cost of measurement in the kharíf is less, and for the rabbi about the same as in the previous year, and as the last year's figures were more correct than those of the previous years when the method of computing these charges in the Delhi Division was faulty, the decrease in cost now effected appears to be real and may be safely relied on. Regarding the cost of preparing the demand statements, the percentage rate for kharíf is slightly in excess of that for the previous year, and that for rabbi is 1 07 against 0·45 of the preceding year. This excess is due to the great falling-off in the area irrigated during the rabbi of 1884-85.

23. The following table shows the rain-fall at some of the principal stations :—

Months.	Umballa District.			Karnal District.			Rohtak District.				Hissar District.		Delhi District.	
	Hathni Kund.	Dádupur.	Kanjnán.	Karnál.	Rer.	Pánipat.	Rohtak.	Sámpla.	Goháná.	Butána.	Hissar.	Hánsi.	Delhi.	Sonepat.
Kharif Crop.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*
April 1884...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
May „ ...	...	...	...	0·33	...	...	...	...	...	...	...	...	0·20	...
June „ ...	4·80	5·44	6·60	5·64	1·14	3·20	7·28	4·60	4·40	4·6	4·80	7·10	7·40	2·90
July „ ...	18·78	13·44	9·20	3·67	2·70	2·20	2·77	4·80	1·95	2·70	3·00	1·80	3·80	1·30
August „ ...	17·67	15·58	6·40	13·35	3·53	6·60	6·40	6·50	4·50	3·80	...	1·00	8·10	7·90
September „ ...	10·03	10·67	7·65	11·79	5·26	12·20	5·02	8·20	8·50	8·50	6·40	5·80	16·20	18·30
Total ...	51·28	45·13	29·85	34·78	12·63	24·20	21·47	24·10	19·35	19·60	14·20	15·70	35·70	30·40
Rabbi Crop.														
October 1884...	4·60	7·27	7·50	2·70	1·41	0·30	...	...	...	0·70	0·60	0·20	...	0·50
November „ ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
December „ ...	...	...	0·15	...	0·05	...	...	...	...	...	...	...	...	...
January 1885...	5·47	4·17	3·05	2·50	3·64	1·70	2·80	3·80	4·20	3·20	1·70	2·30	6·00	4·50
February „ ...	1·06	0·58	0·58	0·60	0·10	...	...	...	...	...	...	...	...	...
March „ ...	...	...	...	0·30	0·35	...	0·10	...	0·30	0·40	...	...	...	...
Total ...	11·13	12·02	11·28	6·10	5·55	2·00	2·90	3·80	4·50	4·30	2·30	2·50	6·00	50·0
Grand Total...	62·41	57·15	41·13	40·88	18·18	26·20	24·37	27·90	23·85	23·90	16·50	18·20	41·70	35·40
Do. 1883-84	38·53	31·46	12·56	16·79	15·50	14·15	12·50	11·30	13·80	7·83	9·10	8·80	13·80	14·30
Difference { More...	23·88	25·69	28·57	24·09	2·68	12·05	11·87	16·60	10·05	16·07	7·40	9·40	27·90	21·10
Difference { Less ..	...	...	...	..	...	...	...	...	...	...	...	...	...	...

24. The following statement shows the area irrigated and the estimated value of produce during the year, which amounted to Rs. 96,16,553 :—

Karnal Division.

Names of Crops.	Flow.	Lift.	Total.	Produce per acre.	Estimated produce.	Value per acre.	Total value of produce.
KHARIF.	Acres.	Acres.	Acres	M. S. C.	M. S. C.	Rs. A. P.	Rs.
Class I.—							
Gardens ...	...	...	...	...	...	...	...
Sugar-cane ...	1,234	86	1,320	12 0 0	15,840 0 0	34 0 0	44,880
Total ...	1,234	86	1,320	...	15,840 0 0	...	44,880
Class II.—							
Cereals—Rice ...	11,852	70	11,922	13 0 0	154,986 0 0	16 4 0	1,93,733
Drugs— Tobacco ...	...	...	...	...	...	...	...
Spices— Ajwain ...	...	...	...	...	...	...	...
Chillies ...	9	3	12	4 0 0	48 0 0	8 0 0	96
Miscellaneous—Vegetables ...	18	6	24	28 0 0	672 0 0	32 0 0	768
Water-nuts (Singhára) ...	69	...	69	70 0 0	4,830 0 0	70 0 0	4,830
Melons ...	65	13	78	25 0 0	1,950 0 0	50 0 0	3,900
Methi (Trigonella) ...	...	...	...	...	...	...	...
Total ...	12,013	92	12,105	...	162,486 0 0	..	2,03,327
Class III.—							
Fibres— Cotton ...	720	278	998	10 0 0	9,980 0 0	40 0 0	39,920
Dyes— Indigo ...	1,058	9	1,067	0 12 0	320 4 0	15 0 0	16,005
Oil-seeds—Toria ...	3	...	3	12 0 0	36 0 0	34 0 0	102
Fodder— Lucern Grass ...	3	...	3	300 0 0	900 0 0	50 0 0	150
Cereals— Wheat ...	...	...	...	...	...	...	...
Barley and gram ...	..	...	...	...	...	...	...
Total ...	1,784	287	2,071	...	11,236 4 0	...	56,177
Class IV.—							
Cereals—Maize (Indian corn) ...	81	18	99	13 0 0	1,287 0 0	15 0 0	1,485
Jowár (Great millet) ...	219	49	268	4 0 0	1,072 0 0	5 0 0	1,340
Bájra (Spiked millet) ...	...	...	...	...	...	...	...
Mandwa ...	47	22	69	6 0 0	414 0 0	6 3 0	414
Kangni (Italian millet) ...	...	...	...	...	...	...	...
China ...	15	...	15	7 0 0	105 0 0	7 0 0	105
Fibres—Hemp (Sani) ...	66	1	67	6 0 0	402 0 0	19 0 0	1,273
Pulses—Urd ...	...	...	...	...	..	...	...
Mung ...	...	...	...	...	...	...	...
Moth ...	...	...	...	...	...	...	...

Hansi Division.

Names of Crops.	Flow.	Lift.	Total.	Produce per acre.	Estimated produce.	Value per acre.	Total value of produce.
KHARIF.	Acres.	Acres.	Acres.	M. S. C.	M. S. C.	Rs. A. P.	Rs.
Class I.—							
Gardens	...	...	...	...	...	...	...
Sugar-cane	7,225	48	7,273	40 0 0	290,920 0 0	50 0 0	3,63,650
Total	7,225	48	7,273	...	290,920 0 0	...	3,63,650
Class II.—							
Cereals—Rice	14,259	...	14,259	12 0 0	171,108 0 0	36 0 0	5,13,324
Drugs— Tobacco	1	...	1	8 0 0	8 0 0	20 0 0	20
Spices— Ajwain	...	...	...	...	...	...	...
Chillies	151	282	433	21 0 0	9,093 0 0	33 0 0	14,289
Miscellaneous—Vegetables	122	147	269	24 0 0	6,456 0 0	12 0 0	3,228
Water-nuts (Singhára)	46	...	46	20 0 0	920 0 0	30 0 0	1,380
Melons	44	82	126	24 0 0	3,024 0 0	10 0 0	1,260
Methi (Trigonella)	...	...	...	...	...	...	...
Total	14,623	511	15,134	...	190,609 0 0	...	5,33,501
Class III.—							
Fibres— Cotton	34,679	2,789	37,468	8 0 0	299,744 0 0	24 0 0	8,99,232
Dyes— Indigo	24,887	137	25,024	5 0 0	125,120 0 0	15 0 0	3,75,360
Oil-seeds—Toria	2	...	2	6 0 0	12 0 0	15 0 0	30
Fodder— Lucern Grass	229	134	363	300 0 0	108,900 0 0	50 0 0	18,150
Cereals— Wheat	...	...	...	...	...	...	...
Barley and gram	...	...	...	...	...	...	...
Total	59,797	3,060	62,857	...	533,776 0 0	...	12,92,772
Class IV.—							
Cereals—Maize (Indian corn)	56	67	123	12 0 0	1,476 0 0	24 0 0	2,952
Jowár (Great millet)	6,805	410	7,215	10 0 0	72,150 0 0	15 0 0	1,08,225
Bájra (Spiked millet)	51	13	64	8 0 0	512 0 0	9 2 0	584
Mandwa	3	4	7	8 0 0	56 0 0	10 0 0	70
Kangni (Italian millet)	2	1	3	5 0 0	15 0 0	10 0 0	30
China	1	...	1	4 0 0	4 0 0	8 0 0	8
Fibres—Hemp (Sani)	148	12	160	3 0 0	480 0 0	15 0 0	2,400
Pulses—Urd	54	1	55	8 0 0	440 0 0	12 0 0	660
Mung	2	...	2	8 0 0	16 0 0	8 0 0	16
Moth	23	...	23	10 0 0	230 0 0	10 0 0	230

Delhi Division. / **Whole Circle.**

Names of Crops.	Flow.	Lift.	Total.	Produce per acre.	Estimated produce.	Value per acre.	Total value of produce.	Whole Circle. Total value of produce.
KHARIF.	Acres.	Acres.	Acres.	M. S. C.	M. S. C.	Rs. A. P.	Rs.	Rs.
Class I.—								
Gardens	2,574	202	2,776	40 0 0	1,11,040 0 0	40 0 0	1,11,040	1,11,040
Sugar-cane	40,674	1,324	41,998	40 0 0	16,79,920 0 0	50 0 0	20,99,900	25,08,430
Total	43,248	1,526	44,774	...	17,90,960 0 0	...	22,10,940	26,19,470
Class II.—								
Cereals—Rice	14,977	3	14,980	12 0 0	179,760 0 0	36 0 0	5,39,280	12,46,337
Drugs— Tobacco	29	37	66	8 0 0	528 0 0	20 0 0	1,320	1,340
Spices— Ajwain	...	...	...	...	...	...	...	...
Chillies	...	...	...	...	...	...	...	14,385
Miscellaneous—Vegetables	572	79	651	24 0 0	15,624 0 0	12 0 0	7,812	11,808
Water-nuts (Singhára)	181	...	181	20 0 0	3,620 0 0	30 0 0	5,430	11,640
Melons	54	8	62	40 0 0	2,480 0 0	80 0 0	4,960	10,120
Methi (Trigonella)	18	...	18	15 0 0	270 0 0	60 0 0	1,080	1,080
Total	15,831	127	15,958	...	2,02,282 0 0	...	5,59,882	12,96,710
Class III.—								
Fibres— Cotton	13.262	948	14,210	8 0 0	113,680 0 0	24 0 0	3,41,040	12,80,192
Dyes— Indigo	6,755	374	7,129	5 0 0	35,645 0 0	320 0 0	22,81,280	26,72,645
Oil-seeds—Toria	...	...	...	...	...	...	...	132
Fodder— Lucern Grass	...	...	...	...	...	...	...	18,300
Cereals— Wheat	46	...	46	12 0 0	552 0 0	20 0 0	820	920
Barley and gram	98	...	98	14 0 0	1,372 0 0	20 0 0	1,960	1,960
Total	20,161	1,322	21,483	...	1,51,249 0 0	...	26,25,200	39,74,149
Class IV.—								
Cereals—Maize (Indian corn)	12	1	13	12 0 0	156 0 0	24 0 0	312	4,749
Jowár (Great millet)	3,268	59	3,327	10 0 0	33,270 0 0	15 0 0	49,905	1,59,470
Bájra (Spiked millet)	63	...	63	10 0 0	630 0 0	18 0 0	1,134	1,718
Mandwa	3	...	3	5 0 0	15 0 0	10 0 0	30	514
Kangni (Italian millet)	9	1	10	5 0 0	50 0 0	10 0 0	100	130
China	...	...	...	...	...	...	...	113
Fibres—Hemp (Sani)	107	3	110	2 20 0	275 0 0	10 0 0	1,100	4,773
Pulses—Urd	115	1	116	5 0 0	580 0 0	12 0 0	1,392	2,052
Mung	...	...	...	...	...	...	...	16
Moth	...	...	...	...	...	...	...	230

Oil-seeds—Til ...	...	...	...	...	...	...	...	13	7	20	6 0 0	100 0 0	15 0 0	300	...	...	...	...	...	...	...	300
Fodder—Guár ...	...	...	...	...	...	...	...	483	32	515	15 0 0	7,725 0 0	15 0 0	7,725	44	1	45	8 0 0	360 0 0	12 0 0	540	8,265
Chari ...	...	...	...	...	...	...	...	672	240	912	25 0 0	22,800 0 0	8 5 4	7,600	...	...	..	...	...	...	...	7,600
Country grass ...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	49	6	55	70 0 0	3,850 0 0	17 0 0	935	935
Lucerne grass ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21	4	25	300 0 0	7,500 0 0	50 0 0	1,250	1,250
Total ...	428	90	518	...	3,280 0 0	...	4,617	8,313	787	9,100	...	1,06,004 0 0	...	130,800	3,691	76	3,767	...	46,686 0 0	...	56,698	1,92,115
Class V.—																						
Fallow lands—(Palevar) ...	1,089	43	1,132	...	...	...	...	865	7	872	...	...	...	...	1,142	10	1,152	...	...	...	...	...
TOTAL KHARIF ...	16,548	598	17,146	...	192,842 4 0	...	3,09,001	90,823	4,413	95,236	...	11,21,309 0 0	...	23,20,723	84,073	3,061	87,134	...	21,91,177 0 0	...	54,52,720	80,82,444
RABBI.																						
Class I.—																						
Gardens ...	69	4	73	40 0 0	2,920 0 0	40 0 0	2,920	665	203	871	40 0 0	34,840 0 0	40 0 0	34,840	17	...	17	40 0 0	680 0 0	40 0 0	680	38,440
Sugar-cane ...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	1	..	1	40 0 0	40 0 0	50 0 0	50	50
Total ...	69	4	73	...	2,920 0 0	...	2,920	665	203	871	...	34,840 0 0	...	34,840	18	...	18	...	720 0 0	...	730	38,490
Class II.—																						
Drugs—Tobacco ...	10	20	30	7 0 0	210 0 0	31 0 0	930	13	32	45	6 0 0	360 0 0	20 0 0	900	...	...	...	...	...	...	...	1,830
Poppy Head ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Spices—Ajwain ...	2	...	2	4 0 0	8 0 0	27 0 0	54	24	7	31	3 0 0	93 0 0	15 0 0	465	11	...	11	2 0 0	22 0 0	8 0 0	88	607
Aniseed (Sonf) ...	...	...	...	...	...	...	...	4	4	8	4 0 0	32 0 0	20 0 0	160	2	...	2	2 0 0	4 0 0	8 0 0	16	176
Dhanya ...	...	...	...	...	...	...	...	398	213	611	3 0 0	1,833 0 0	9 0 0	5,499	...	...	...	...	...	...	...	5,499
Methi (Trigonella) ...	82	15	97	6 0 0	582 0 0	12 0 0	1,164	556	123	679	4 0 0	2,716 0 0	8 0 0	5,432	247	18	265	15 0 0	3,975 0 0	60 0 0	15,900	22,496
Cereals—Rice ...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	1	...	1	12 0 0	12 0 0	36 0 0	36	36
Miscellaneous—Vegetables ...	8	15	23	28 0 0	644 0 0	32 0 0	736	55	84	139	24 0 0	3,336 0 0	12 0 0	1,668	86	24	110	24 0 0	2,640 0 0	12 0 0	1,320	3,724
Onions ...	3	4	7	60 0 0	420 0 0	20 0 0	140	...	3	3	51 0 0	153 0 0	17 0 0	51	1	...	1	51 0 0	51 0 0	17 0 0	17	208
Halon ...	...	...	...	...	...	...	...	15	1	16	5 0 0	80 0 0	20 0 0	320	...	...	...	...	...	...	...	320
Carrots ...	1	1	2	30 0 0	60 0 0	10 0 0	20	66	98	164	80 0 0	13,120 0 0	20 0 0	3,280	5	3	8	50 0 0	400 0 0	12 0 0	96	3,396
Total ...	106	55	161	...	1,924 0 0	...	3,044	1,131	565	1,696	...	21,723 0 0	...	17,775	353	45	398	...	7,104 0 0	...	17,473	38,292
Carried over	175	59	234	...	4,844 0 0	...	5,964	1,799	768	2,567	...	56,563 0 0	...	52,615	371	45	416	...	7,824 0 0	...	18,203	76,782
	16,548	598	17,146	...	1,92,842 4 0	...	3,09,001	90,823	4,413	95,236	...	11,21,309 0 0	...	23,20,723	84,073	3,061	87,134	...	21,91,177 0 0	...	54,52,720	80,82,444

Names of Crops.	Karnal Division.							Hansi Division.							Delhi Division.							Whole Circle.
	Flow.	Lift.	Total.	Produce per acre.	Estimated produce.	Value per acre.	Total value of produce.	Flow.	Lift.	Total.	Produce per acre.	Estimated produce.	Value per acre.	Total value of produce.	Flow.	Lift.	Total.	Produce per acre.	Estimated produce.	Value per acre.	Total value of produce.	Total value of produce.
	Acres.	Acres.	Acres.	M. S.	M. S.	Rs. A. P.	Rs.	Acres.	Acres.	Acres.	M. S.	Mds. S.	Rs. A. P.	Rs.	Acres.	Acres.	Acres.	M. S.	M. S.	Rs. A. P.	Rs.	Rs.
Brought forward ...	16,548	598	17,146	...	1,92,842 4	...	3,09,001	90,823	4,413	95,236	...	11,21,309 0	...	23,20,723	84,073	3,061	87,134	...	21,91,177 0	...	54,52,720	80,82,444
	175	59	234	...	4,844 0	...	5,964	1,799	768	2,567	...	56,563 0	...	52,615	371	45	416	...	7,824 0	...	18,203	76,782
RABBI—Concld.																						
Class III.—																						
Cereals—Wheat ...	3,527	1,219	4,746	13 0	61,698 0	21 0 0	99,666	43,220	2,949	46,169	12 0	554,028 0	20 0 0	9,23,380	10,010	612	10,622	12 0	127,464 0	20 0 0	2,12,440	12,35,486
Gram ...	28	8	36	6 0	216 0	8 0 0	288	6,066	45	6.111	16 0	97,776 0	20 0 0	1,22,220	...	...	...	...	...	...	...	1,22,508
Barley ...	109	73	182	11 0	2,002 0	11 0 0	2,002	725	116	841	15 0	12,615 0	20 0 0	16,820	20	...	20	15 0	300 0	20 0 0	400	19,222
Barley and gram ...	...	...	...	...	...	...	...	305	8	313	16 0	5,008 0	16 0 0	5,008	383	7	390	14 0	5,460 0	20 0 0	7,800	12,808
Wheat and gram ...	...	...	...	...	...	...	...	818	32	850	14 0	11,900 0	20 0 0	17,000	...	...	...	...	...	...	...	17,000
Barley and masur ...	...	...	...	...	...	...	...	687	33	720	7 0	5,040 0	8 8 1	6,125	...	...	...	...	...	...	...	6,125
Mixed grains ...	4	...	4	12 0	48 0	14 0 0	56	...	...	...	...	...	...	...	...	...	...	...	...	...	...	56
Oil-seeds—Toria ...	59	14	73	12 0	876 0	34 0 0	2,482	...	3	3	6 0	18 0	15 0 0	45	...	...	...	...	...	...	...	2,527
Sarson ...	2	...	2	8 0	16 0	18 0 0	36	171	14	185	4 0	740 0	9 0 0	1,665	...	...	...	...	...	...	...	1,701
Pulses— Masur ...	91	58	149	3 0	447 0	3 0 0	447	685	14	699	12 0	8,388 0	18 0 0	12,582	137	5	142	72 0	1,065 0	14 0 0	1,988	15,017
Peas (Matar) ...	...	...	...	...	...	...	...	22	1	23	8 0	184 0	12 0 0	276	...	...	...	...	...	...	...	276
Dyes— Korar (safflower) ...	...	...	...	...	...	...	...	1	...	1	12 0	1 20	24 0 0	24	1	1	2	0 25	1 10	12 0 0	24	48
Indigo ...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	1	5 0	5 0	320 0 0	320	320
Fibres— Cotton ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15	...	15	8 0	120 0	24 0 0	360	360
Fodder— Lucern grass ...	4	...	4	300 0	1,200 0	50 0 0	200	240	106	346	300 0	103,800 0	50 0 0	17,300	...	...	...	...	...	...	...	17,500
Oats (Javi) ...	...	...	...	...	...	...	...	394	18	412	10 0	4,120 0	10 0 0	4,120	...	...	..	...	...	...	...	4,120
Total ...	3,824	1,372	5,196	...	66,503 0	...	1,05,177	53,334	3,339	56,673	...	803,618 20	...	11 26,565	10,567	625	11,192	...	134,415 10	...	2,23,332	14,55,074
Class IV.—																						
Cereals—China ...	1	...	1	7 0	7 0	7 0 0	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
Jowár ...	...	...	...	...	...	...	...	1	...	1	10 0	10 0	15 0 0	15	59	...	59	10 0	590 0	15 0 0	885	900
Bájra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
Maize (Makai) ...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
Fodder—Harrar ...	3	7	10	25 0	250 0	5 0 0	50	...	...	...	...	...	...	...	..	...	...	...	...	...	...	50
Charí ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jowár and Guár ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lucerne grass ...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	9	2	11	300 0	3,300 0	50 0 0	550	550
Country grass ...	...	...	...	...	...	...	...	1	...	1	60 0	60 0	15 0 0	15	40	3	43	70 0	3,010 0	17 0 0	731	746
Total ...	4	7	11	...	257 0	...	57	2	...	2	m	70 0	...	30	108	5	113	...	6,900 0	...	2,166	2,253
Class V.—																						
Fallow lands (Palevar) ...	200	12	21[illegible]	...	...	...	...	2,912	15	2,927	...	...		...	149	...	149	...	...		...	...
Total Rabbi ...	4,203	1,450	5,6[illegible]3	...	71,604 0	...	1,11,198	58,047	4,122	62,169	...	8,60,251 20	...	11,79,210	11,195	675	11,870	...	149,139 10	...	2,43,701	15,34,109
GRAND TOTAL ...	20,751	2,048	22,79[illegible]	...	264,446 4	...	4,20,199	148,870	8,535	1,57,405	...	19,81,560 20	...	34,99,933	95,268	3,736	99,004	...	23,40,316 10	...	56,96,42[illegible]	96,16,553

BARI DOAB CANAL.

25. The Capital expenditure during the year amounted to Rs. 2,49,460, which raised the Capital invested to the end of the year to Rs. 1,59,47,178.

26. The expenditure consisted of—

	Rs.	Rs.
Direct Charges.		
Works	2,12,680	
Establishment	48,797	
Tools and Plant	52	
Suspense Accounts	−17,498	
Receipts on Capital Account	−840	
		2,43,191
Indirect Charges.		
* Capitalization of abatement of Land Revenue ...	− 563	
Leave and Pension Allowances	6,832	
		6,269
Total		2,49,460

27. The charges for Establishment was 22·9 per cent. on the expenditure on works.

28. The expenditure on Works was as follows :—

	Rs.
Constructing new rapids on the Main Branch Upper	59,528
Ditto ditto ditto Lower	19,259
Plantations on the Kasúr Branch	1,187
Fords on ditto	924
Plantations on the Sobráon Branch	2,747
Constructing new rapids on the Sobráon Branch	21,604
Distributaries, Main Branch Lower	31,656
Ditto, Kasúr Branch	28,954
Ditto, Sobráon Branch	32,479
Ditto, Lahore Branch	14,342
Total ...	2,12,680

29. The Revenue Account is as follows :—

Expenditure.

	Rs.	Rs.	Rs.
Extensions and Improvements ...			19,178
Maintenance and Repairs ...			2,50,887
Compensation			205
Establishment—			
Direction ...		18,536	
Executive ...		77,986	
Medical ...		825	
Revenue	54,525		
Fees on Collection	38,927		
		93,452	
			1,90,799
Tools and Plant—			
Direction ...		60	
Executive ...		9,680	
			9,740
Refunds of Revenue			2,086
Total ...			4,72,895
Indirect Charges—			
Leave and Pension Allowances ...		26,712	
			26,712
Total Working Expenses ...			4,99,607
Balance Profit			8,30,170
Grand Total ...			13,29,777

Receipts.

	Rs.	Rs.	Rs.
Water-rates			9,39,181
Miscellaneous			1,15,030
Total ...			10,54,211
Indirect—			
Water-advantage rate for 1884-85 ...	2,34,893		
Book credit for Jágír lands ...	38,713		
	2,73,606		
Book credit for previous years ...	1,960		
			2,75,566
Grand Total ...			13,29,777

30. The balance of receipts is thus Rs. 8,30,170, or Rs. 5·20 per cent. on the Capital outlay, against Rs. 4·43 excluding, and Rs. 7·02 per cent. including, the large sum brought to credit on account of arrears of water-advantage rate in the previous year.

31. The interest charge during the year amounted to Rs. 6,08,136. Deducting this sum, the net profit of the year is Rs. 2,22,034, or 1·39 per cent. on the Capital, against Rs. 0·60 excluding, and Rs. 3·20 including, adjustments in the previous year. The balance of unpaid charges and interest at the end of the year was Rs. 51,06,866.

32. There was a decrease of Rs. 8,510 in the expenditure under Extensions and Improvements, due to Rs. 3,562 having been spent on the Bári Doáb Canal offices, against Rs. 7,906, Rs. 563 on falls and weirs, against Rs. 6,559, and Rs. 3,442 on mills, against Rs. 6,649 in the previous year. This led to a decrease of Rs. 13,547, which was, however, diminished by an increase of Rs. 9,706 under Buildings and Miscellaneous, Rs. 7,958 of which was on account of enlarging the chauki at Koháli and amalgamating the outlets on Basarki and Gilpin Rájbahás.

33. On Maintenance and Repairs there was also a decrease of Rs. 7,727, chiefly due to less expenditure on Masonry Works, Main Branch Upper; there was, however, more work carried out during the year under review on training works in the River Ravi at Mádhopur.

34. The amount paid as compensation was for damages to crops due to breaches in the banks of the Rájbahás, and though more than that paid last year is much less than what has been paid in previous years.

35. There was a decrease of Rs. 42,937 in the Establishment, due to increased expenditure under Capital and to fluctuations in the cost of Establishment.

36. There was an increase of Rs. 2,810 in the expenditure on Tools and Plant, chiefly due to the adjustments of the value of a 12-horse-power portable engine transferred from the Swát River Canal and an iron roller transferred from the Mádhopur Workshops.

37. There was a satisfactory decrease of Rs. 478 in Refunds of Revenue.

38. The following table shows in detail the cost of the Establishment during the last five years :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rs.	Rs.
ENGINEERING.					
Direction	18,536	36,474	32,164	22,202	1,834
Executive	77,986	1,00,615	1,10,749	1,11,491	1,14,103
Medical	825	994	1,481	1,557	2,260
Total ..	97,347	1,38,083	1,44,394	1,35,250	1,18,197
REVENUE.					
Collection and Police	54,525	55,289	50,791	50,144	51,446
Fees to Lambardárs and Patwáris ...	38,927	40,364	41,910	43,732	43,627
Total ...	93,452	95,653	92,701	93,876	95,073
Plantations	...	...	...	...	1,349
Field Survey	...	...	...	52	...
GRAND TOTAL ...	1,90,799	2,33,736	2,37,095	2,29,178	2,14,619
	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated	376,762	390,860	353,615	368,002	433,080
	Rs.	Rs.	Rs.	Rs.	Rs.
Rate per acre	0·506	0·598	0·670	0·623	0·499
" excluding adjustments of 1880-81	...	...	...	...	0·562

The decrease in Establishment charges accounts for the decrease in the rate.

39. The working expenses for the last five years are compared in the following table :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rs.	Rs.
I A.—Extensions and Improvements ...	19,178	27,688	54,193	37,108	13,534
I B.—Maintenance and Repairs ...	2,50,887	2,58,614	2,17,603	1,80,879	1,51,042
I C.—Compensation ...	205	50	457	5,889	2,293
II.—Establishment including fees on Collection ...	1,90,799	2,33,736	2,37,095	2,29,178	2,14,619
III.—Tools and Plant ...	9,740	6,930	3,161	5,069	2,035
IV.—Refunds of Revenue ...	2,086	2,564	6,452	3,015	4,400
V.—Profit and Loss ...	...	...	10	...	...
Total ...	4,72,895	5,29,582	5,18,971	4,61,138	3,87,923
Deduct adjustments of previous year ...	...	...	—11,204	...	...
Total ...	4,72,895	5,29,582	5,07,767	4,61,138	3,87,923
Book charges ...	26,712	32,748	21,806	49,427	34,795
Total Working Expenses ...	4,99,607	5,62,330	5,29,573	5,10,565	4,22,718
	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated ...	376,762	390,860	353,615	368,002	433,080
	Rs.	Rs.	Rs.	Rs.	Rs.
Rate per acre excluding book charges ...	1·26	1·35	1·43	1·25	0·90
Rate per acre including book charges ...	1·33	1·44	1·50	1·39	0·98

The decrease in the rate per acre is due to the decrease in the Maintenance charges, and would have been greater if there had not been a decrease in the area irrigated.

40. The following table shows the results of the operations during the last five years under the heads of Collections and Assessments:—

Details.		1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
		Rs.	Rs.	Rs.	Rs.	Rs.
COLLECTIONS.						
Water-rates from irrigation	...	9,39,181	8,99,080	9,83,044	10,13,421	9,54,003
Miscellaneous	...	1,15,030	1,04,463	1,11,246	1,15,265	1,20,916
Total	...	10,54,211	10,03,543	10,94,290	11,28,686	10,74,919
Water-advantage rate	...	2,75,566	6,61,893	2,79,968	2,95,227	7,04,000
Grand Total	...	13,29,777	16,65,436	13,74,258	14,23,913	17,78,919
ASSESSMENTS.						
Water-rates from irrigation	...	9,43,428	9,48,550	9,02,217	9,22,067	10,70,859
Miscellaneous	...	1,15,030	1,04,463	1,11,246	1,15,265	1,20,916
Total	...	10,58,458	10,53,013	10,13,463	10,37,332	11,91,775
Water-advantage rate	...	3,18,930	3,34,034	2,98,793	3,16,258	3,27,293
Grand Total	...	13,77,388	13,87,047	13,12,256	13,53,590	15,19,068
Capital invested	...	1,59,47,178	1,56,97,718	1,55,26,553	1,55,52,072	1,55,66,485
Working Expenses	...	4,99,607	5,62,330	5,29,573	5,10,565	4,22,718
PROFIT ON CAPITAL.						
Collections	...	8,30,170	11,03,106	8,44,685	9,13,348	13,56,201
Do. per cent.	...	5·20	7·02	5·44	5·87	8·71
Assessments	...	8,77,781	8,24,717	7,82,683	8,43,025	10,96,305
Do. per cent.	...	5,50	5·25	5·03	5·42	7·04
Interest charges for the year	...	6,08,136	5,99,920	5,97,080	5,97,890	6,72,850

The collections were swollen in the preceding year by the credit of arrears of water-advantage rate on assigned lands and any comparison is therefore vitiated. A slight decrease took place in the Assessments owing to a falling-off in the kharif due to seasonable rain-fall during the year under review in the months of July and August, which was not fully compensated by the increase in the area under rabbi; but as there was a diminished expenditure on Maintenance, the percentage under the head of "Profit on Capital" shows an increase and compares favorably with similar percentages in the three preceding years.

41. The following table brings together the observations of the rain-fall during the two months of July and August at different stations in the years 1883 and 1884, and shows that the rain-fall was generally in excess, in several instances largely so, during the latter:—

YEARS.		MADHOPUR.		BHIMPUR.		TIBRI.		KALAIR.		ALIWAL.		AMRITSAR.		BUCHAR.		MEEAN MEER.		VAHN.	
		July.	August.	July.	August.	July.	August.	July.	August.	July.	August.	July.	August.	July.	August.	July.	August.	July.	August.
		Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
1884	...	10·9	27·4	12·8	18·8	10·1	10·2	5·8	3·7	8·1	5·2	10·1	2·9	9·a	1·9	8·3	·8	1·2	1·2
1883	...	7·2	11·1	4·6	3·9	2·5	4·1	4·0	6·5	2·6	3·5	11·8	4·3	4·6	1·1	2·7	1·2	2·9	1·6

42. The area irrigated in the rabbi was greater than that of the two preceding pears, and was nearly equal to that of the year 1881-82. The heavy rain-fall in January 1885, of which a record is given below, stopped any

further increase of irrigation after that month in many parts of the canal. The comparison with the previous year shows a copious and timely rain-fall :—

MONTH.	Mádhopur.	Bhímpur.	Tibri.	Kalair.	Aliwál.	Amritsar.	Buchar.	Meean Meer.	Váhn.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
January 1885	5·7	5·7	3·0	2·6	2·8	2·9	1·8	1·7	0·5
January 1884	1·1	1·2	0·7	0·8	1·0	0·3	0·3	0·4	0·6

The total area irrigated in both seasons during the year was 376,762 acres, against 390,860 acres in the preceding year. The whole decrease occurred under kharíf, and as mentioned above was due to the heavy and timely rain-fall during the autumn. It is noticed here that the rabbi area is diminished owing to the operation of the rule referred to in the previous Revenue Report under which the rabbi crops raised in the final watering given to the kharíf crop are exempted from assessments. The area of crops thus raised in the year under review was 17,305 acres, against 24,547 acres in the previous year, and the operation of this rule caused a loss of revenue at full rates during the year of Rs. 37,625 as compared with the sum of Rs. 52,660 in the previous year.

43. The water-advantage rate or land revenue dependent on the canals was as follows :—

Area in each Class.		Rs.	Rs.	Rs.
808	Acres	@ 1-8-0	1,212	
356	,,	,, half rates	267	
				1,479
3,665	,,	,, 1-4-0	4,581	
4	,,	,, half rates	3	
				4,584
23,424	,,	,, 1-2-0	26,352	
3,007	,,	,, half rates	1,691	
				28,043
154,873	,,	,, 1	1,54,874	
23,956	,,	,, half rates	11,978	
				1,66,852
151,425	,,	,, 0-12-0	1,12,256	
15,244	,,	,, half rates	5,716	
				1,17,972
376,762	,,	,, average rate 0·84 per acre		3,18,930

There was a decrease of Rs. 15,104 on the returns of the previous year due to the smaller area irrigated during the kharíf crop.

44. The following table compares the various items of miscellaneous revenue for a period of five years :—

DETAILS.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rs.	Rs.
III.—Miscellaneous receipts by sale of water	14,580	12,036	12,758	10,040	11,901
V.—Receipts from Plantations ...	36,158	33,799	33,643	14,293	18,138
VI.—Receipts from other Canal Produce	110	167	143	122	85
VII.—Water-power	54,726	54,663	57,435	71,669	64,029
IX.—Rents from buildings ...	3,608	2,501	1,485	1,285	1,328
X.—Fines	1,108	709	2,025	15,729	17,693
XI.—Miscellaneous and other Receipts	4,740	1,588	3,757	2,127	7,742
Total ...	1,15,030	1,04,463	1,11,246	1,15,265	1,20,916

The increase under miscellaneous sale of water is due to a sum outstanding against the Amritsar Municipality having been realized during the year. The large quantity of wood used in the construction of new falls affected the receipts from Plantations, and the rents of buildings were increased by the realizations during the current year of arrears due on account of rent for the old Workshop Building at Mádhopur.

45. The balance outstanding on account of water-rates was Rs. 13,156, against Rs. 27,194 in the previous year.

46. The following table shows the working of the canal for a period of five years :—

Particulars.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
Water-rent.	Rs.	Rs.	Rs.	Rs.	Rs.
Kharíf	4,18,776	4,41,854	4,37,226	3,83,475	4,46,369
Rabbi	5,24,652	5,06,696	4,64,991	5,38,592	6,24,490
Total ...	9,43,428	9,48,550	9,02,217	9,22,067	10,70,859
Area irrigated.	*Acres.*	*Acres.*	*Acres.*	*Acres.*	*Acres.*
Kharíf	136,188	160,927	146,471	126,872	151,104
Per cent. ...	36·1	41·2	41·4	34·4	34·9
Rabbi	240,574	229,933	207,144	241,130	281,976
Per cent. ...	63·9	58·8	58·6	65·6	65·1
Total ...	376,762	390,860	353,615	368,002	433,080
Double-cropped land ...	47,696	51,090	49,760	45,473	56,836
Per cent. ...	12·7	13·1	14·07	12·4	13·1
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*
Rain-fall	60·7—9·0	36·1—20·9	41·6—21·0	58·70—21·80	41·29—10·40
Supply entering Canal.	*Cubic feet.*	*Cubic feet.*	*Cubic feet.*	*Cubic feet.*	*Cubic feet.*
Kharíf	2,860	3,036	2,725	1,954	2,759
Rabbi	2,091	1,653	1,994	1,681	1,950
Supply utilized.					
Kharíf	2,606	2,735	2,451	1,784	2,695
Rabbi	1,864	1,621	1,868	1,669	1,919
Loss of water.					
Kharíf	254	301	274	170	64
Rabbi	227	37	126	12	31
Duty of water per cubic foot Entering Canal.	*Acres.* Rs.	*Acres.* Rs.	*Acres.* Rs.	*Acres.* Rs.	*Acres.* Rs.
Kharíf	47·6 146·4	53·0 145·5	53·8 160·4	64·9 196·2	54·8 161·8
Rabbi	115·1 250·9	138·7 305·6	103·9 233·2	143·4 320·4	144·6 320·2
Utilized.					
Kharíf	52·3 160·7	58·8 161·6	59·8 178·4	71·1 215·0	56·0 165·6
Rabbi	129·1 281·5	141·8 312·5	110·9 248·9	144·5 322·7	146·9 325·4
Average water-rate per acre irrigated.	Rs.	Rs.	Rs.	Rs.	Rs.
Kharíf	3·08	2·74	2·99	3·02	2·95
Rabbi	2·18	2·20	2·24	2·23	2·21
Number of villages irrigating.	No.	No.	No.	No.	No.
Kharíf	1,189	1,197	1·193	1,167	1,160
Rabbi	1,139	1,153	1,132	1,133	1,133

The duty per cubic foot utilized is below that of the last year both in the kharíf and the rabbi owing to the slacker demand and the consequent freer use of the water. The Superintending Engineer thus refers to the remarks of the Government of India in reviewing the Revenue Report for the year 1883-84 as to the inferior duty of land in the kharíf on the Bári Doáb Canal when compared with that of the Western Jumna Canal. "The fact however is, that the kharíf duties on these two canals are in no way comparable ; for, putting aside the fact that the registered discharge of the Western Jumna is largely supplemented by drainage in flow, the conditions of summer heat, rain-fall, nature of soil and depth of sub-soil water differ so widely that no comparison is possible There are tracts on the Bári Doáb Canal where the duty would probably compare favourably with that of the Western Jumna, but, taken as a whole, the crops require more frequent and more copious waterings than those of the older canal. Indeed, there are many parts of the Mánjha where the kharíf duty certainly does not exceed 30 acres per cubic foot of supply. The longer irrigation is practised, the more favourable is the duty ; thus there are Rájbahas in the neighbourhood of Amritsar for instance, where 15 years ago it was simply impossible to get water down to the tail, whereas now with the same amount entering at the head, and the same (or even a greater) amount of irrigation, there is always plenty of water escaping at the tail. Thus if irrigation were not to be extended on this canal beyond its present limits, there is no sort of doubt that in the course of the next 10 years or so there would be a very notable increase in the duty ; but as water becomes available (as above described) from the older Rájbahas, new and thirsty tracts are being opened up at the tail of the canal, so that it may be expected that the kharíf duty will very likely not increase to any great extent for many years."

47. The proportion of flow to lift irrigation is given in the following table for the last five years :—

Particulars.		1884-85.		1883-84.		1882-83.		1881-82.		1880-81.	
		Kharíf.	Rabbi.	Kharíf.	Rabbi.	Kharíf.	Rabbi.	Kharíf.	Rabbi.	Kharíf.	Rabbi.
Flow ...	Area, Acres	127,890	206,374	148,956	197,277	135,830	179,475	117,964	207,156	139,171	242,614
	Per cent....	93·91	85·79	92·56	85·80	92·60	80·11	92·97	85·91	92·10	86·10
Lift ...	Aréa, Acres	8,298	34,200	11,971	32,656	10,641	27,669	8,908	33,974	11,933	39,362
	Per cent. ..	6·09	14·21	7·44	14·20	7·40	19 89	7·03	14·09	7·90	13·90
Total ...		136,188	240,574	160,927	229,933	146,471	207,144	126,872	241,130	151,104	281,976
		376,762		390,860		353,615		368,002		4,33,080	

The percentages are practically constant in the kharíf and do not show much variation in the rabbi.

48. The area and percentage of each class of crop is given below :—

Class.	1884-85. Area.	1884-85. Per cent.	1883-84. Area.	1883-84. Per cent.	1882-83. Area.	1882-83. Per cent.	1881-82. Area.	1881-82. Per cent.	1880-81. Area.	1880-81. Per cent.
	Acres.		Acres.		Acres.		Acres.		Acres.	
Class I	11,421	3·0	10,875	2·8	12,245	3·5	12,707	3·5	12,397	2·8
" II	42,110	11·2	37,244	9·5	40,356	11·4	33,261	9·0	45,093	10·4
" III	221,8 2	58 8	217,245	55 6	199,008	56 3	228,646	62·1	265,858	61·4
" IV	97,176	25·8	122,207	31·3	99,721	28·2	91,855	25·0	107,268	24·8
" V	4,243	1·2	3,289	0·8	2,235	0·6	1,533	0 4	2,464	0·6
Total ...	376,762	...	390,800	...	353,615	...	368,002	...	433,080	...

The area in all the classes except No. IV shows an increase.

49. The area of the principal crops grown is detailed below for each of the last five years :—

Crops.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Acres.	Acres.	Acres.	Acres.	Acres.
Sugar-cane	11,421	10,874	12,245	12,707	12,397
Rice	41,291	36,636	39,783	32,582	44,594
Cotton	24,917	27,858	29,353	28,712	23,314
Wheat	182,021	176,655	156,054	178,743	219,838

As compared with the previous year there is an increase under sugar-cane, rice and wheat, and a decrease under cotton ; this last is understood to be due to the seasonable rain-fall in the month of March 1884 which helped the people to raise the cotton crop on báráni lands. The wheat area is really the only one which varies considerably, most of the others being fairly constant.

50. The following table shows the cost of maintenance per mile for both canal and distributaries :—

Particulars.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
Canals ... { Rs. / Miles ...	$\frac{95,032}{353 \cdot 85} = 268 \cdot 56$	$\frac{1,20,896}{353 \cdot 85} = 341 \cdot 66$	$\frac{74,297}{353 \cdot 85} = 209 \cdot 96$	$\frac{67,789}{353 \cdot 85} = 191 \cdot 57$	$\frac{45,664}{353 \cdot 85} = 129 \cdot 05$
Rájbahas { Rs. / Miles ...	$\frac{41,814}{895} = 46 \cdot 72$	$\frac{38,059}{867} = 43 \cdot 89$	$\frac{31,541}{867} = 36 \cdot 38$	$\frac{32,169}{862} = 37 \cdot 31$	$\frac{35,728}{862} = 41 \cdot 45$

The decrease in the cost of the maintenance per mile of canal compared with that of last year is due to the bulk of the expenditure on remodelling the rapids having been included under the head of Capital in the year under review. The increase in the expenditure on the Rájbahas was due to a larger outlay having been incurred in putting them in order.

51. The cost of the measurements and of the preparation of demand statements was as follows :—

Particulars.	Cost and Area Measured.				Demand Statement.					
	Kharif.		*Rabbi.*		*Last batch submitted.*		*Kharif.*		*Rabbi.*	
	Area and amount.	Rate per 100 acres.	Area and amount.	Rate per 100 acres.	Kharif.	Rabbi.	Cost.	Rate per 100 acres.	Cost.	Rate per 100 acres.
		Rs.		Rs.			Rs.	Rs.	Rs.	Rs.
1st Division ... { Acres / Rs.	31,438 / 481	1·53	43,489 / 273	0·63	14th Novr. 1884.	30th April 1885.	420	1·34	154	0·35
2nd „ ... { Acres / Rs.	104,750 / 1,516	1·45	197,085 / 1,078	0·54	9th Decr. 1884.	5th June 1885.	456	0·43	374	0·19
Whole Canal ... { Acres / Rs.	136,188 / 1,997	1·46	240,574 / 1,351	0·56	...	...	876	0·64	528	0·22
Average for five years. { Acres / Rs.	721,562 / 10,493	1·45	1,200,757 / 10,590	0·88	...	...	12,042	1·67	16,397	1·36

The decrease in the rate for measuring crops and of preparing the demand statements was mainly due to the fact that much of the work was done by the Canal Patwárís whose pay is not included in the amounts shown in the above statement but is debited to fees for collection. There is reason to believe that the cost of measurements will diminish in future still further, as the Patwárís become more used to the work.

52. The following table compares the rain-fall of the last two years :—

Months.	Gurdaspur.					Amritsar.		Lahore.	
	Mádhopur.	Bhímpur.	Tibri.	Kalair.	Aliwál.	Amritsar.	Búchar.	Meean Meer.	Váhn.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Kharíf Crop.									
April 1884 ...	0·3	...	1·0	0·4	0·2	0·1	...	0·3	...
May " ...	0·4	1·1	0·6	...	...	0·1	0·4	0·8	0·7
June " ...	5·3	2·6	3·6	2·5	4·7	2·0	3·7	2·3	3·4
July " ..	10·9	12·8	10·1	5·8	8·1	10·1	9·4	8·3	1·9
August " ...	27·4	18·8	10·2	3·7	5·2	2·9	1·9	6·8	1·2
September " ...	8·3	8·3	1·9	17·6	3·7	5·8	5·1	4·4	1·1
Total ...	52·6	43·6	27·4	30·0	21·9	21·0	20·5	22·9	8·3
Rabbi Crop.									
October 1884 ...	...	...	...	...	...	0·2	...	0·7	...
November " ...	...	...	...	...	0·6	...	...	0·2	0·2
December " ...	0·5	...	...	...	...	0·2	...	...	...
January 1885 ...	5·7	5·7	3·0	2·6	2·8	2·9	1·8	1·7	0·5
February " ...	1·5	0·8	0·2	0·8	0·5	0·4	0·1	0·4	...
March " ...	0·4	0·1	0·2	...	0·3	...	...	...	...
Total ...	8·1	6·6	3·4	3·4	4·2	3·7	1·9	3·0	0·7
Grand Total ...	60·7	50·2	30·8	33·4	26·1	24·7	22·4	25·9	9·0
Do. 1883-84 ...	36·1	24·0	22·8	33·2	22·7	35·4	20·9	25·3	21·1
Difference ...	+ 24·6	+ 26·2	+ 8·0	+ 0·2	+ 3·4	—10·7	+ 1·5	+ 0·6	—12·1

53. The following table shows the area of crops irrigated and the estimated value of produce, which amounted to Rs. 94,81,760 :—

Names of Crops.	1st Division. Flow.	1st Division. Lift.	2nd Division. Flow.	2nd Division. Lift.	Total. Flow.	Total. Lift.	Grand Total.	Produce per acre.			Estimated produce.	Average rate per rupee.			Total value of produce.
Kharif.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Mds.	S.	C.	Mds.	Mds.	S.	C.	Rs.
Class I.—															
Sugar-cane	5,116·12	39·18	5,904·62	361·03	11,020·74	400·21	11,420·95	25	0	0	285,523·75	...	13	0	8,78,535
Class II.—															
Rice	11,454·24	...	29,547·92	288·52	41,002·16	288·52	41,290·68	20	0	0	825,813·60	0	30	0	11,01,085
Gardens	92·57	13·69	213·03	35·90	305·60	49·59	355 19	Rs. 66	p	er	acre ...	...	...	...	23,443
Total Class II ...	11,546·81	13·69	29,760·95	324·42	41,307·76	338·11	41,645·87	...	...	...	...	...	...	...	11,24,528
Class III.—															
Fibres ... Cotton	4,936·76	34·07	17,624·61	2,321·97	22,561·37	2,356·04	24,917·41	9	0	0	224,256·69	0	12	0	7,47,522
Fibres ... Hemp	111·58	0·90	335·60	30·07	447·18	30·97	478·15	5	0	0	2,390·75	0	12	0	7,969
Dyes and Drugs, &c. Turmeric	19·32	1·17	...	...	19·32	1·17	20·49	12	0	0	245·88	0	4	0	2,459
Dyes and Drugs, &c. Tobacco	39·16	0·79	147·92	38·03	187·08	38·82	225·90	25	0	0	5,647·50	0	9	0	25,100
Dyes and Drugs, &c. Indigo	0·65	...	...	...	0·65	...	0·65	0	4	0	2·60	0	0	8	5
Oil-seeds ... Til (Sesemum) ...	60·65	...	622·90	53·81	683·55	53·81	737·36	2	5	0	1,566·89	0	10	0	6,268
Oil-seeds ... Toria ...	71·08	...	...	...	71·08	...	71·08	7	0	0	497·56	0	16	0	1,244
Miscellaneous ... Vegetables ...	125·01	6·58	949·46	204·65	1,074·47	211·23	1,285·70	Rs. 36	p	er	aere.	...	...	...	46,285
Miscellaneous ... Orchards	187·73	12·24	1,469·87	160·28	1,657·60	172·52	1,830·12	Rs. 66	p	er	acre.	...	...	...	1,20,787
Total Class III ...	5,551·94	55·75	21,150·36	2,808·81	26,702·30	2,864·56	29,566·86	...	...	...	...	...	...	...	9,57,639
Class IV.—															
Cereals Jowár (great millet)	5,400·49	102·96	13,937·53	2,155·48	19,338·02	2,258·44	21,596·46	16	0	0	345,543·36	0	38	0	3,63,730
Cereals Kangni (Italian millet)	...	...	25·09	3·66	25·09	3·66	28·75	20	0	0	575·00	0	30	0	767
Cereals Maize (Indian corn)	...	...	13,484·03	1,864·90	13,484·03	1,864·90	15,348·93	28	0	0	429,770·04	1	0	0	42,970
Fodder and grass	3,087·63	14·91	8,447 22	...	11,534·85	14·91	11,549·76	5	p	er	acre. ...	...	...	...	57,749
Miscellaneous	127·21	...	2,692·82	530·09	2,820·03	530·09	3,350·12	10	0	0	33,501·20	1	0	0	33,501
Fallow lands	13·87	...	304·81	6·99	318·68	6·99	325·67	...	...	...	...	...	...	...	...
Total Class IV ...	8,629·20	117·87	38,891·50	4,561·12	47,520·70	4,678·99	52,199·69	...	...	...	...	...	...	...	4,98,717
Class V.—															
Single watering	365·51	2·51	973·16	13·97	1,338·67	16·48	1,355·15	...	...	...	...	...	...	...	...
Total Kharif ...	31,209·58	229·00	96,680·59	8,069·35	127,890·17	8,298·35	136,188·52	...	...	...	...	...	...	...	34,59,419

RABBI.															
Class I.—															
Sugar-cane	0·0	...	0·32	...	0·32	...	0·32	25	...	...	8·00	0	13	0	25
Class II.—															
Rice	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gardens	79·46	9·87	322·45	52·28	401·91	62·15	464·06	Rs. 66	pe	r	acre. ..	...	...	...	30,628
Total Class II ...	79·46	9·87	322·45	52·28	401·91	62·15	464·06	--	...	...	...	...	...	...	30,628
Class III.—															
Cereals ... Wheat	29,370·53	601·83	122,285·13	29,765·16	1,51,653·66	30,366·99	182,020·65	19	0	0	3,458,392·35	0	29	0	47,70,196
Barley	240·16	0·80	1,349·76	338·89	1,589·92	229·66	1,929·61	14	0	0	27,014·54	1	0	0	27,015
Mixed grains	572·87	5·39	641·31	62·90	1,214·18	68·29	1,282·47	14	0	0	17,954·58	0	35	0	20,520
Oil seeds ... Linseed	6·06	...	31·32	14·27	37·38	14·27	51·65	2	0	0	103·30	0	15	0	275
Sarson	529·80	0·57	2,110·48	376·46	2,640·28	377·03	3,017·31	9	0	0	117,155·79	0	16	0	2,92,889
Toria	76·88	2·13	95·57	23·82	172·45	25·95	198·40	8	0	0	1,587·20	0	17	0	3,735
Dyes and Drugs &c. Poppies	97·18	4·32	356·79	47·20	453·97	51·52	505·49	4	0	0	2,021·96	0	2	0	40,439
Tobacco	5·75	...	75·65	39·29	81·40	39·29	120·69	25	0	0	3,017·25	0	12	0	10,057
Miscellaneous Vegetables	40·96	18·46	919·47	364·45	960·43	382·91	1,343·34	Rs. 36	pe	r	acre. ...	...	...	...	48,360
Safflower	0·12	...	...	...	0·12	...	0·12	1	0	0	5·16	0	1	12	3
Orchards	6·44	9·52	1,679·50	80·19	1,685·94	89·71	1,775·65	Rs. 66	pe	r	acre. ...	...	...	...	1,17,193
Total Class III ...	30,946·75	643·02	129,542·98	31,112·63	1,60,489·73	31,755·65	192,245·38	...	...	...	...	...	...	...	53,30,682
Class IV.—															
Pulses ... Gram	1,877·46	10·70	4,888·16	425·10	6,765·62	435·80	7,201·42	17	0	0	122,424·14	...	36	0	1,36,027
Masúr	72·59	...	67·35	3·04	139·94	3·04	142·98	6	0	0	857·88	...	35	0	980
Cereals— Chína	...	...	46·90	5·76	46·90	5·76	52·66	15	0	0	789·90	1	0	0	790
Fodder ... Grass	...	...	111·32	4·16	111·32	4·16	115·48	Rs. 57	p	er	acre. ...	...	...	..	577
Sinji	9,638·68	85·31	25,825·41	1,781·44	35,464·09	1,866·75	37,330·84	Rs. 14	p	er	acre. ...	...	...	...	5,22,632
Fallow lands	11·24	...	113·97	7·92	125·21	7·92	133·13	...	...	...	...	...	...	...	...
Total Class IV ...	11,599·97	96·01	31,053·11	2,227·42	42,653·08	2,323·43	44,976·51	...	...	...	...	...	...	...	6,61,006
Class V.—															
Single watering	113·86	0·10	2,714·87	58·83	2,828·73	58·93	2,887·66	...	...	...	...	...	...	...	...
Total Rabbi	42,740·04	749·00	163,633·73	33,451·16	206,373·77	34,200·16	240,573·93	...	...	...	...	...	...	...	60,22,341
GRAND TOTAL ...	73,949·62	978·00	2,60,314·32	41,520·51	334,263·94	42,498·51	376,762·45	...	...	...	...	...	...	...	94,81,760

Lower Sohag and Para Canal.

53. The canal was opened up for irrigation as far as Haveli on the 23rd October 1884, and water was given for the Rabbi Crop of the year. The Capital Expenditure during the year amounted to Rs. 1,84,779, and to the end of the year to Rs. 2,79,861.

54. The expenditure consisted of—

	Rs.	Rs.
Direct Charges.		
Works	1,43,379	
Establishment	33,688	
Tools and Plant	2,145	
Suspense Accounts	911	
Receipts on Capital Account	— 60	
		1,80,063
Indirect Charges.		
Leave and Pension Allowances		4,716
Total		1,84,779

55. The expenditure on works was on—

	Rs.	Rs.
(2). Main Canal and Branches—		
Main Line	1,43,136	
Pára Branch	87	
Soház Branch	39	
		1,43,262
(3). Distributaries—		
Main Line	115	
Soház Branch	2	
		117
Total		1,43,379

56. The charge for Establishment was Rs. 23·5 per cent. on the expenditure on works.

57. There was no Revenue Account, as the realization for the Rabbi crop falls within the following year.

58. The assessment of the Fluctuating Land Revenue amounted to Rs. 307.

59. The arrea irrigated during the rabbi was 645 acres.

60. The average rate for the crop was $\left\{ \begin{array}{l} \text{Rs.} \\ \text{Acres} \end{array} \right. \frac{307}{645} =$ Rs. 0·5.

61. The proportion of Flow to Lift irrigation was—

Flow	Area	Acres	53
	Per cent.	...	8·2
Lift	Area	Acres	592
	Per cent.	...	91·8
	Total	Acres	645

62. The area and percentage of each class of crop was—

	Area. Acres.	Percentage.
Class IV.	640	99·22
" V.	5	0·78
Total ...	645	

63. The area under the principal crops was—

Wheat ... ... 547 acres.

64. The cost of measurement was $\left\{\begin{matrix}\text{Acres} \\ \text{Rs.}\end{matrix}\right. \frac{655}{1}$ = Rs. 0·16 and for preparing the Demand Statements $\left\{\begin{matrix}\text{Acres} \\ \text{Rs.}\end{matrix}\right. \frac{655}{3}$ = Rs. 0·46.

65. The dates of the commencement and completion of measurements and submission of Demand Statements are given below :—

Measurement commenced	...	...	...	2nd January 1885.
Ditto completed	...	...	...	29th do ,,
Demand Statement submitted	...	...	...	2nd April ,,
Announcement completed	...	...	...	4th do. ,,

66. The following statement shows the rainfall at the principal stations :—

Months.	Montgomery District.	
	Dipálpur.	Pák Pattan.
Khurif Crop.	Inches.	Inches.
April 1884	...	...
May ,, ...	...	...
June ,, ...	3·00	2·20
July ,, ...	4·80	2·00
August ,, ...	1·60	...
September ,, ...	2·30	4·00
Total ...	11·70	8·20
Rabbi Crop.		
October 1884	...	...
November ,, ...	...	...
December ,, ...	...	...
January 1885	0·50	0·50
February ,, ...	...	...
March ,, ...	...	...
Total ...	0·50	0·50
Grand Total ...	12 20	8·70
Ditto 1883-84	11·80	6·90
Difference more	0·40	1·80

67. The following table shows the area irrigated and the estimated value of crops, which amounted to Rs. 10,197 :—

Names of Crops.	Area irrigated.			Produce per acre.			Estimated produce.	Average rate per rupee.			Estimated value of produce.
	Flow.	Lift.	Total.								
Rabbi.	Acres.	Acres.	Acres.	Mds.	S.	C.	Mds.	Mds.	S.	C.	Rs.
Class IV—											
Wheat	46	501	547	11	0	0	6,070	0	24	4	9,925
Barley	...	4	4	12	0	0	48	1	0	0	48
Gram	...	8	8	14	0	0	112	1	6	0	97
Goja	5	2	7	13	0	0	91	1	0	0	91
Ság	...	71	71	...	...	...	...	...	...	...	...
Vegetable	...	1	1	Rs.	12	per acre		...	...	...	12
Gájar	...	2	2	Rs.	12	per acre		...	...		24
Total ...	51	589	640	...	...	..	...	...	...	...	10,197
Class V—											
Wahan	2	3	5	...	..	...	...	...	...	...	...
Total ...	2	3	5	...	...	...	...	...	...	...	...
Grand Total ...	53	592	645	...	...	...	...	...	...	...	10,197

SIRHIND CANAL.

68. The Capital expenditure during the year under the head of "Imperial" was Rs. 6,47,362, and under that of "Contributions" Rs. 5,13,585. These additions raised the Capital invested to the end of the year to Rs. 2,04,54,707 and Rs. 1,12,10,392, respectively.

69. The expenditure during the year consisted of—

Particulars.	Imperial.	Contributions.	Total.
Direct Charges.	Rs.	Rs.	Rs.
I.—Works	5,05,930	4,15,722	9,21,652
II.—Establishment	1,67,695	1,23,989	2,91,684
III.—Tools and Plant	— 9,952	— 4,077	— 14,029
IV.—Suspense Accounts	— 43,471	— 21,424	— 64,895
V.—Receipts on Capital Account	— 286	— 625	— 911
Total ...	6,19,916	5,13,585	11,33,501
Indirect Charges.			
Capitalization of abatement of Land Revenue ...	3,969	...	3,969
Leave and Pension Allowances ...	23,477	...	23,477
Total ...	27,446	...	27,446
Grand Total ...	6,47,362	5,13,585	11,60,947

70. The expenditure on works is shown in detail below—

	Rs.	Rs.	Rs.
(1). *Head Works*		1,004	
(2). *Main Canal and Branches*—			
Main Line	33,149		
Combined Branches	2,082		
Abohar Branch	58,817		
Bhatinda Branch	14,887		
Feeder Lines	1,48,877		
Sutlej Navigation Channel	23,442		
Kotla Branch	1,71,438		
Gugger Branch	5,537		
Choah Branch	12,014		
Patiála Navigation Channel	598		
		4,63,728	
(3). *Distributaries*—			
Abohar Branch	2,41,463		
Bhatinda Branch	11,456		
Kotla Branch	1,12,282		
Gugger Branch	96,233		
Choah Branch	46		
		4,61,480	
(4). *Drainage and Protective Works*—			
Main Line		— 4,560	
Total		...	9,21,652

71. The Revenue Account was as follows :—

EXPENDITURE.	Imperial.	Contributions.	Total.	RECEIPTS.	Imperial.	Contributions.	Total.
	Rs.	Rs.	Rs.		Rs.	Rs.	R
Extension and Improvements	39,892	1,793	41,685	Water rates from Irrigation	17,504	...	17,504
				Sales of water ...	930	...	930
Maintenance and Repairs ...	64,650	23,250	87,900	Receipts from plantations	4,740	1,816	6,556
Establishment—				Receipts from other Canal produce ...	2,587	838	3,425
Direction	6,024	1,443	7,467	Water power ...	2,247	762	3,009
Executive	17,529	5,337	22,866	Navigation receipts ...	1,157	649	1,806
Medical	345	114	459	Rent of Buildings ...	1.457	2,010	3,467
Revenue ... 9,949 / Do. fees on collection ... 483	10,432	...	10,432	Fines ...	53	1	54
				Miscellaneous ...	1,807	304	2.111
Navigation ...	1,295	...	1,295	Total ...	32.482	6,380	38,862
Leave and Pension allowances ...	...	965	965				
Total ...	35,625	7,859	43,484				
Tools and Plant ...	52	13	65				
Refunds of Revenue ...	4	2	6				
Total ...	1,40,223	32,917	1,73,140	Balance Loss ...	1,12,728	26,537	1,39,265
Indirect charges— Leave & Pension allowances	4,987	...	4,987				
GRAND TOTAL ...	445,210	32,917	178,127	GRAND TOTAL ...	1,45,210	32,917	1.78,127

72. The expenditure on Extensions and Improvements was incurred on—

	Rs.
Flour Mills	35,970
Enlarging and re-roofing the Superintending Engineer's office	3,618
Weed Trap at Manpur	1,312
Petty items	785
TOTAL ...	41,685

73. The following table shows the detail of establishment imperial for this and the previous year :—

DETAILS.	1884-85.	1883-84.
Engineering.	Rs.	Rs.
Direction	6,024	1,063
Executive	17,529	1,708
Medical	345	34
Total ...	23,898	2,805
Revenue.		
Collection and Police	9,949	4,040
Fees to Lambardárs and Patwárís	483	...
Total ...	10,432	4,040
Navigation	1,295	...
GRAND TOTAL ...	35,625	6,845
Area irrigated	Acres. 36,102	Acres. 5,030
Rate per acre	Rs. 0·99	Rs. 1·36

74. The Working Expenses for this and the previous year are compared below. The large increase shown during the year is due to the transfer of the maintenance of the completed works from the head of Capital to that of Revenue.

DETAIL.	1884-85.	1883-84.
	Rs.	Rs.
I. A.—Extensions and Improvements	39,892	5,581
I. B.—Maintenance and Repairs	64,650	4,098
II.—Establishment	35,625	6,845
III.—Tools and Plant	52	9
IV.—Refunds of Revenue	4	...
Total ...	1,40,223	16,533
Book charges	4,987	958
TOTAL WORKING EXPENSES ...	1,45,210	17,491
	Acres.	Acres.
Area irrigated	36,102	5,030
	Rs.	Rs.
Rate per acre, excluding Book charges	3·88	3·29
Rate per acre, including Book charges	4·02	3·48

75. The following table shows the results of the operations of the present and past year, under both collections and assessments : —

DETAILS.	1884-85.	1883-84.
Collections.	Rs.	Rs.
Water-rates from Irrigation	17,504	...
Miscellaneous	14,978	224
Total ...	32,482	224
Assessments.		
Water-rates from Irrigation	61,529	3,173
Miscellaneous	13,711	224
Total ...	75,240	3,397
Capital invested by Government	2,04,54,707	1,98,07,345
Working Expenses	1,45,210	17,491
Profit on Capital.		
Collections	— 1,12,728	— 17,267
Ditto per cent.	— 0·55	— 0·09
Assessments	— 69,970	— 14,094
Ditto per cent.	— 0·34	— 0·07
Interest charges for the year	7,64,177	7,31,722

76. The following table compares the items of Miscellaneous Revenue collected during the last two years :—

DETAIL.	1884-85.	1883-84.
	Rs.	Rs.
III.—Miscellaneous receipts from sales of water ...	930	...
V.—Receipts from Plantations	6,556	...
VI.—Receipts from other Canal produce	3,425	...
VII.—Water power	3,009	86
VIII.—Navigation receipts	1,806	200
IX.—Rents of Buildings	3,467	...
X.—Fines	54	7
XI.—Miscellaneous and other receipts	2,111	...
Total { Imperial	14,978	224
Total { Contributions ...	6,380	69
TOTAL ...	21,358	293

Favorable rents were received from the mills at Baragarh and Phidda in the 4th Division and there is at present a strong demand for mills in that Division. In the 3rd Division no mills have yet been built, but the prospects of the profitable renting of mills on the upper part of the Abohar Branch are even more favorable.

77. The balance outstanding on account of Water rates, was Rs. 132.

78. The following table shews the working of the Canals during the last two years :—

DETAILS.	1884-85.	1883-84.
Water Rent.	Rs.	Rs.
Kharíf	14,680	...
Rabbi	46,849	3,174
Total ...	61,529	3,174
Area Irrigated.		
Kharif ... ... Acres	10,165	3,317
" per cent.	28·1	65·9
Rabbi ... ... Acres	25,937	1,713
" per cent.	71·9	34·1
Total ...	36,102	5,030
Average water-rate per acre Irrigated.	Rs.	Rs.
Kharíf	1·44	...
Rabbi	1·81	1·85
Number of villages Irrigating.	*No.*	*No.*
Kharíf	122	42
Rabbi	169	33

The area irrigated in the year under review, 36,102 acres, compares favorably with the figures, 30,000 acres, given by Colonel Gulliver in his forecast of the growth of irrigation, attached to the Revised Estimate of the scheme prepared in the year 1881.

79. The proportion of flow to lift irrigation in this and the preceding year is given in the following table :—

Particulars.			1884-85.		1883-84.	
			Kharíf.	Rabbi.	Kharíf.	Rabbi.
Flow.	Area	*Acres.*	10,101	25,873	3,317	1,713
	Percentage	...	99·37	99·75	...	...
Lift.	Area	*Acres.*	64	64	...	...
	Percentage	...	0·63	0·25	...	...
	Total	...	10,165	25·937	3,317	1,713
			36,102		5,030	

Water was only given from the Abohar Branch; the means of distribution not being sufficiently advanced on the other Branches. The close distribution to be effected from the Government channels, which have an extension much beyond that provided in the other systems of canals, while involving some delay at present, will, it is fully anticipated, give great facilities for rapid irrigation in the next and subsequent years.

80. The following table gives the area and percentage of each class of crop irrigated during the last two years :—

Class.	1884-85.		1883-84.	
	Area.	Percentage.	Area.	Percentage.
	Acres.		Acres.	
Class I	5	0·01	3	0·06
" II	1,613	4·47	1,110	22·07
" III	24,276	67·24	1,677	33·35
" IV	7,901	21·89	2,234	44·41
" V	125	0·34	6	0·12
" VI	2,182	6 05	...	...
Total ...	36,102	...	5,030	...

81. The area of the principal crops for a period of two years is given below:—

Crops.	1884-85.	1883-84.
	Acres.	Acres.
Sugar-cane	5	3
Cotton	317	30
Wheat	22,458	1,020

82. The cost of maintenance of the Canal and Rájbáha was during the year:—

Particulars.		14-85.
Canals ...	Rupees	55,234 / 206 = 268·12
	Miles	
Rájbahas ...	Rupees	16,402 / 352 = 46·59
	Miles	

83. The cost of the measurement and the preparation of the demand statement is given in the following table:—

Particulars.	Area Measured.				Demand Statement.					
	Kharif.		Rabbi.		Last batch submitted.		Kharif.		Rabbi.	
	Area and amount.	Rate per 100 acres.	Area and amount.	Rate per 100 acres.	Kharíf.	Rabbi.	Cost.	Rate per 100 acres.	Cost.	Rate per 100 acres.
		Rs.		Rs.			Rs.		Rs.	
4th Division { Rs. / Acres	146 / 9,998	1·46	333 / 23,994	1·39	21-5-85	21-5-85	164	1·64	223	0·92

The area in the 3rd Division was measured up by the Zilladárs, hence there was no separate expenditure on the measurement and preparation of the demand statement.

84. The following table shows the rain-fall at some of the principal stations :—

Months.	Umballa District.		Ludhiana District.		Ferozepore District.		Sirsa District.		Patiala.
	Rúpar.	Umballa.	Ludhiána.	Akhara.	Ferozepore.	Dhaipái.	Sirsa.	Gobindgarh.	
	Inches.	Inches.	Inches.	Inches	Inches.	Inches.	Inches.	Inches.	Inches.
Kharif Crop.									
April 1884	...	...	...	...	...	...	...	...	0·1
May "	...	...	0·4	0·2	0.2	...	...	0·2	0·2
June "	6·3	2·1	2·3	3·6	3·7	5·6	5·3	0·2	3·5
July "	7·2	15·3	9·7	7·2	2·8	3·7	4·5	1·1	5·0
August "	12·6	15·2	3·3	2·4	1·4	1·0	4·6	1·7	9·2
September "	8·3	13·4	10·5	1·9	4·6	...	2·3	0·1	8·4
Total ..	34·4	46·0	26·2	15·3	12·7	10·3	16·7	3·3	26·4
Rabbi Crop.									
October 1884	4·0	1·9	0·5	...	0·3	...	0·1	0·4	1·7
November "	...	...	...	...	...	...	...	...	...
December "	0·4	...	...	...	...	...	...	...	0·1
January 1885	3·8	3·1	2·9	2·7	1·3	2·4	2·6	1·3	4·2
February "	0·5	...	0·2	0·1	...	...	...	...	0·2
March "	...	...	0·3	0·3	...	...	...	...	0·3
Total ...	8·7	5·0	3·9	3·1	1·6	2·4	2·7	1·7	6·5
Grand Total ...	43·1	51·0	30·1	18·4	14·3	12·7	19·4	5·0	32·9
Do. 1883-84 ...	37·6	47·5	27·1	18·4	22·2	11·7	15·3	...	27·9
Difference ...	+5·5	+3·5	+3·0	...	−7·9	+1·0	+4·1	+5·0	+5·0

85. The following statement shows the area of the crops irrigated during the year, and the estimated value of the produce, amounting to Rs. 4,40,676 :—

Name of Crops.	3rd Division. Flow.	Lift.	Total.	Produce per acre.			Estimated produce.			Average rate per rupee.			Total value of produce.	4th Division. Flow.	Lift.	Total.	Produce per acre.			Estimated produce.			Average rate per rupee.			Total value of produce.	Grand total value of produce.
	Acres.	Acres.	Acres.	Mds.	S.	C.	Mds.	S.	C.	Mds.	S.	C.	Rs.	Acres.	Acres.	Acres.	Mds.	S.	C.	Mds.	S.	C.	Mds.	S.	C.	Rs.	Rs.
KHARIF. *Class I—*																											
Sugar-cane	...	...	...	...	...	...	...	...	...	...	...	...	...	4·53	...	4·53	19	8	0	10	13	0	3	0	0	30	30
Class II—																											
Cereals—Maize (Indian corn) ...	111·96	6·90	118·86	10	0	0	1,189	0	0	1	0	0	1,189	1,290·56	25·05	1,315·61	21	24	0	25,787	20	0	0	14	0	22,564	23,753
																	Rs.	A.	P.								
Dyes, Drugs and Spices. Chillies	0·53	...	0·53	10	0	0	5	0	0	1	0	0	5	...	...	...	..	...	...	...	...	...	...	...	..	...	5
Tobacco	...	...	..	...	...	...	...	...	...	...	...	...	...	0·08	...	0·08	38	6	4	...	...	...	...	..	...	3	3
Miscellaneous—Vegetables ...	...	...	...	...	...	...	...	...	...	...	...	...	...	103·03	2·90	105·93	38	6	4	...	...	...	...	..	...	3,118	3,118
Total	112·49	6·90	119·39	...	...	...	...	...	..	...	...	...	1,194	1,393·67	27·95	1,421·62	...	...	...	...	..	...	...	...	...	25,685	26,879
Class III—																	M.	S.	C.								
Fibres—Hemp	1·33	...	1·33	2	0	0	3	0	0	0	10	0	12	186·31	2 00	188·31	2	16	0	391	30	0	4	0	0	1,567	1,579
Cotton	8·22	0·20	8·42	6	0	0	51	0	0	0	10	0	204	305·00	3·41	308·41	10	32	0	2,832	5	0	3	0	0	8,496	8,700
Oil seeds—Til (Sesamum)... ...	...	...	...	...	...	...	...	...	...	...	...	...	...	39·99	...	39·99	8	12	0	8	12	0	3	8	0	1,162	1,162
Total	9·55	0·20	9·75	...	...	...	...	...	...	...	...	...	216	531·30	5·41	536·71	...	...	...	...	...	...	...	..	...	11,225	11,441
Class IV—																											
Cereals—Jowár (great millet) ...	35·18	...	35·18	10	0	0	352	0	0	1	22	0	227	6,040·67	13·65	6 054·32	15	0	0	72,644	0	0	0	12	0	54,483	54,710
Bájra (spilled) ..	...	...	...	...	...	...	...	...	...	...	...	...	...	176·43	..	176 43	10	32	0	1,631	22	0	1	4	0	2,039	2,039
Chína	...	...	...	...	...	...	...	...	...	..	..	...	...	8·69	...	8·69	14	0	0	120	10	0	0	12	0	90	90
Swánk	...	...	...	...	...	...	...	...	...	...	...	...	...	2·41	...	2·41	14	0	0	31	10	0	1	0	0	31	31
Pulses— Moth	...	...	...	...	...	...	...	...	...	...	...	...	...	384·86	...	384·86	10	32	0	3,894	25	0	1	0	0	3,895	3,895
Moong	...	...	...	...	...	...	...	...	...	...	...	...	...	9·08	...	9·08	10	32	0	96	10	0	1	4	0	120	120
Másh or Urd	...	..	...	...	...	...	...	...	...	...	...	...	...	142·85	...	142·85	10	32	0	1,409	10	0	1	10	0	2,290	2,290
Oil Seeds—Til (Sesamum)... ...	...	...	...	...	...	...	...	...	...	...	...	...	...	481·00	...	481·00	8	12	0	3,992	0	0	0	8	0	13,982	13,982
																	Rs.	A.	P.								
Fodder—Grasses	...	...	...	...	...	...	...	...	...	...	..	...	...	19·32	...	19·32	10	0	0	...	..	...	...	...	..	115	116
Miscellaneous—Guarah	...	...	...	...	...	...	...	...	...	...	...	...	...	45·13	...	45 13	13	20	0	639	20	0	0	12	0	457	457
Total	35·18	...	35·18	...	...	...	...	..	...	...	...	...	227	7,310·44	13·65	7,324·09	...	...	...	...	...	...	...	...	...	77,502	77,729

Class V— Fallow Lands	...	...	...	...	...	...	...	...	...	...	...	...	...	41·96	...	41·96	...	...	...	...	...	...	...	...	...	...	...
Class VI— Miscellaneous	2·11	...	2·11	5	0	0	11	0	0	1	0	0	11	669·79	...	669·79	...	...	...	...	...	...	...	...	...	...	11
Total Kharif	159·33	7·10	166·43	...	...	...	...	...	...	...	...	...	1,648	9,951·69	47·01	9,996·70	...	...	...	...	...	...	...	...	...	1,14,442	1,16,090
RABBI.																											
Class II—																											
Dyes, Drugs and Spices. Tobacco	1·50	...	1·50	9	24	0	14	16	0	4	0	0	4	0·90	...	0·90	9	24	0	1	0	0	4	0	0	4	8
Poppy	...	...	...	...	...	...	...	...	...	...	...	...	...	5·27	...	5·27	9	24	0	41	0	0	3	0	0	123	123
Zíra	...	...	...	...	...	...	...	...	...	...	...	...	...	1·36	...	1·36	...	...	...	...	...	...	...	...	...	...	...
Miscellaneous—Vegetables ...	3·58	...	3·58	28	12	0	101	12	0	1	0	0	102	58·60	1·26	59·86	Rs. 28	A. 12	P. 0	...	...	...	...	...	...	1,115	1,217
Total	5·08	...	5·08	...	...	...	...	...	...	...	...	...	106	66·13	1·26	67·39	...	...	...	...	...	...	...	...	...	1,242	1,348
Class III— Cereals—Wheat ...	1,742·56	15·18	1,757·74	15	0	0	26,366	24	0	1	8	0	21,972	20,659·30	41·79	20,701·09	14	16	0	216,895	0	0	1	4	0	2,71,188	1,93,160
" and Barley ...	111·76	3·17	114·93	14	16	0	1,654	37	0	1	8	0	1,379	...	...	...	...	...	...	...	...	...	...	...	...	...	1,379
Barley ...	...	...	...	...	...	...	...	...	...	...	...	...	...	615·16	...	615·16	19	8	0	7,257	0	0	0	14	0	6.450	6.450
Oil Seeds—Sarson ...	9·65	...	9·65	14	16	0	138	38	0	2	8	0	63	464·44	...	464·44	14	16	0	4,041	0	0	2	[illegible]	0	8,082	8,145
Tára Míra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	10·07	...	10·07	14	16	0	129	0	0	2	[illegible]	0	258	258
Dyes, Drugs & Spices—Coriander ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·13	...	0·13	14	16	0	1	0	0	4	0	0	4	4
Methi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·08	...	1.08	14	16	0	16	0	0	2	0	0	32	32
Fodder—Sinjí ...	...	...	...	...	...	...	...	...	...	...	...	...	...	42·77	...	42·77	3	0	0	111	0	0	2	0	0	222	222
Miscellaneous—Hálon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	12·36	...	12·36	14	16	0	144	0	0	3	0	0	432	432
Total	1,863·97	18·35	1,882·32	...	...	...	...	...	...	...	...	...	23,414	21,805·31	41·79	21,847·10	...	...	...	...	...	...	...	...	...	2,86,668	310,082
Class IV— Pulses—Gram	1·48	...	1·48	19	8	0	28	31	0	1	0	0	29	539·64	0·22	539·86	19	8	0	12,486	0	0	1	0	0	12,486	12,515
Class V— Fallow Lands	...	...	...	...	...	...	...	...	...	...	...	...	...	83·20	...	83·20	...	...	...	...	...	...	...	...	...	...	...
Class VI— Miscellaneous	53·43	...	53·43	14	16	0	769	14	0	1	8	0	641	1,455·09	1·74	1,456·83	...	...	...	...	...	...	...	...	...	...	641
Total Rabbi	1,923·96	18·35	1,942·31	...	...	...	...	...	...	...	...	...	24,190	23,949·37	45·01	23,994·38	...	...	...	...	...	...	...	...	...	3,00,396	3,24,586
GRAND TOTAL	2,083·29	25·45	2,108·74	...	...	...	...	...	...	...	...	...	25,838	33,903·06	92·02	33,993·08	...	...	...	...	...	...	...	...	...	4,14,838	4,40,676

Upper Sutlej Inundation Canals.

86. The Capital Account to the end of the year amounted to Rs. 5,77,251 or Rs. 1,141 less than the previous year, the decrease being due to the Suspense Balances.

87. The Revenue Account was as follows :—

Expenditure.	Rs.	Rs.	Rs.	Receipts.	Rs.	Rs.
				Water-rates	11,872	
Maintenance and Repairs			68,462	Miscellaneous	5,598	17,470
Establishment—				Water-advantage rate, Lahore District	6,506	
Direction ...		4,725		Fixed water-rate, Montgomery District ...	79	
Executive ...		25,150		Fluctuating Land Revenue, Montgomery District ...	74,737	
Medical ...		748			81,322	
Revenue ...	10,534			Deduct adjustments for previous year ...	13	81,309
Fees on Collection	277	10,811	41,434	Total ...		98,779
Tools and Plant—						
Direction		16		Balance Loss		18,116
Executive		578	594			
Total ...			1,10,490			
Indirect Charges—						
Leave and Pension allowances ...			6,405			
Grand Total ...			1,16,895	Grand Total ...		1,16,895

88. The above account shows a loss of Rs. 18,116 or Rs. 3·13 per cent. on the capital invested against Rs. 2·64 per cent. in the previous year.

89. There was no expenditure on Extensions and Improvements during the year.

90. Under Maintenance and Repairs there was a decrease of Rs. 6,425 due to the outlay on silt clearance having been kept down to *Budget* limits.

91. There was a decrease of Rs. 7,538 in the establishment charges; Rs. 5,035 of which was due to Direction charges, the result of the decrease in expenditure on Maintenance and Repairs, and the balance to the repayment by the Civil authorities of the salaries of Canal Patwáris noted in paragraph 73 of last year's report.

92. Under Tools and Plant there was a slight increase of Rs. 69 due to the purchase of enamelled gauges.

93. The following table shows in detail the cost of Establishment for five years :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rs.	Rs.
Engineering—					
Direction	4,725	9,760	11,042	4,631	322
Executive	25,150	24,555	23,273	22,213	21,235
Medical	748	532	600	657	670
Total ...	30,623	34,847	34,915	27,501	22,227
Revenue—					
Collection and Police	10,534	10,776	8,595	7,641	7,869
Fees to Lambardárs and Patwáris	277	3,349	903	642	598
Total ...	10,811	14,125	9,498	8,283	8,467
Grand Total ...	41,434	48,972	44,413	35,784	30,694
	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated	90,074	71,374	129,802	179,578	102,801
	Rs.	Rs.	Rs.	Rs.	Rs.
Rate per acre	0·46	0·68	0·34	0·20	0·30

The decrease in rate was due to the increased area irrigated and to the diminution in the Establishment charges.

94. The working expenses for five years are detailed in the following table :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rs.	Rs.
I A.—Extensions and Improvements	...	1,047	3,953	1,815	644
I B.—Maintenance and Repairs ...	68,462	74,887	88,017	45,168	53,638
II.—Establishment	41,434	48,972	44,413	35,784	30,694
III.—Tools and Plant	594	525	1,518	347	745
IV.—Refunds of Revenue ...	...	...	123	...	7
V.—Profit and Loss	...	...	3	...	...
Total ...	1,10,490	1,25,431	1,38,027	83,114	85,728
Book Charges	6,405	7,422	4,746	7,689	4,698
Total Working Expenses ...	1,16,895	1,32,853	1,42,773	90,803	90,426
	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated	90,074	71,374	1,29,802	179,578	102,801
	Rs.	Rs.	Rs.	Rs.	Rs.
Rate per acre including Book Charges	1·23	1·76	1·06	0·46	0·83
Ditto excluding ditto ...	1·30	1·86	1·10	0·51	0·88

The decrease in the percentage was due to the causes mentioned in the previous para.

95. The following table shows the result of the operations for five years according to both Collections and Assessments :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
COLLECTIONS.	Rs.	Rs.	Rs.	Rs.	Rs.
Water-rates from irrigation	11,872	16,756	20,285	15,710	14,835
Owner's rate	...	— 288	7,907	5,140	4,973
Miscellaneous	5,598	4,905	3,819	4,230	3,368
Total ...	17,470	21,373	32,011	25,080	23,176
Water-advantage rate, Lahore District	6,506	7,881	...	...	...
Fixed water-rate, Montgomery " ...	79	106	124		
Fluctuating land revenue	74,737	87,947	1,30,555	1,24,004	93,862
Ditto Adjustments for previous year	— 13	74,324	...	...	...
Total ...	81,309	1,70,258	1,30,679	1,24,004	93,862
GRAND TOTAL ...	98,779	1,91,631	1,62,690	1,49,084	1,17,038
ASSESSMENTS.					
Miscellaneous	5,598	4,905	3,819	4,230	3,368
Water-rates from irrigation... ...	14,076	10,624	17,318	21,318	
Water-advantage rate, Lahore District	13,606	10,505	17,065	21,319	1,25,962
Fixed water-rates, Montgomery " ...	79	79	124	149	
Fluctuating land revenue " " ...	76,178	55,461	1,05,266	1,73,253	
Total ...	1,09,537	81,574	1,43,592	2,20,269	1,29,330
Capital invested	5,77,251	5,78,392	5,78,447	5,78,400	5,78,498
Working Expenses	1 16,895	1,32,853	1,42,773	90,803	90,426
PROFIT ON CAPITAL.					
Collections	— 18,116	58,778	19,917	58,281	26,612
Ditto per cent.	— 3·13	10·16	3·44	10 07	4·60
Assessments	— 7,358	— 51,279	819	29,466	38,904
Ditto per cent.	— 1·27	— 8·87	0·14	5·09	6·73

Excluding the adjustments on account of the previous years, there is a falling-off of Rs. 18,515 under Collections, which may be attributed, as was the case last year, to the further decrease in the area irrigated on the rabbi crop of 1883-84, the collections of which was made in the year under review. There is an increase of Rs. 27,963 under Assessments, which was due to the river keeping generally at a higher level this year than it did in the last year, and to the exceptionally good working of the Katora Canal during the year.

96. The following table shows the miscellaneous revenue for five years. :—

DETAILS.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rs.	Rs.
V—Receipts from Plantations	998	1,154	3,022	2,374	1,942
VI.—Receipts from other Canal Produce	3,635	3,121			
IX.—Rents of buildings	288	180	180	180	180
X.—Fines	...	...	45	426	162
XI.—Miscellaneous and other receipts...	677	450	572	1,250	1,084
Total	5,598	4,905	3,819	4,230	3,368

There was an increase of Rs. 693 in the miscellaneous revenue, mainly due to an increase in grazing dues and to more land having been leased for cultivation than in the previous year.

97. The following table shows the working of these canals for four years :—

PARTICULARS.	1884-85.	1883-84.	1882-88.	1881-82.
	Rs.	Rs.	Rs.	Rs.
Water-rate, Lahore District	14,076	10,624	17,318	21,318
Fixed water-rate and fluctuating land revenue, Montgomery District	76,257	55,540	1,05,390	1,73,402
Total	90,333	66,164	1,22,708	1,94,720
Area irrigated.	*Acres.*	*Acres.*	*Acres.*	*Acres.*
Kharif	44,411	31,802	41,588	71,920
„ per cent.	49·30	44·56	32·04	40 05
Rabbi	45,663	39,572	88,214	1,07,658
„ per cent.	50·70	55·44	67·96	59·95
Total	90,074	71,374	1,29,802	1,79,578
Double cropped land	1,649	1,489	2,716	2,550
„ „ per cent.	1·83	2·09	2·09	1·42
	Inches.	*Inches.*	*Inches.*	*Inches.*
Rain-fall	13·56—8·70	15·26—6·90	25·18—7·4	16·6—13·9
Mean Discharge.	*Cubic feet.*	*Cubic feet.*	*Cubic feet.*	*Cubic feet.*
Whole year	1,304	823	1,038	1,472
	Acres. Rs.	Acres. Rs.	Acres. Rs.	Acres. Rs.
Duty of water per cubic foot	69 69	87 80	125 118	122 132
Average Water-rate per acre irrigated.				
Lahore District—				
Kharif ... { Rupees / Acres	5,821 / 11,429 = 0·5	4,472 / 8,787 = 0·5	5,008 / 9,922 = 0·5	8,201 / 16,215 = 0·5
Rabbi ... { Rupees / Acres	8,255 / 16,176 = 0·5	6,152 / 12,223 = 0·5	12,310 / 24,208 = 0·5	13,117 / 26,235 = 0·5
Montgomery District—				
Kharif ... { Rupees / Acres	51,189 / 32,982 = 1·6	31,878 / 23,015 = 1·4	49,570 / 31,666 = 1·6	1,03,190 / 55,705 = 1·9
Rabbi ... { Rupees / Acres	25,068 / 29,487 = 0·8	23,662 / 27,349 = 0·9	55,820 / 64,006 = 0·9	70,212 / 81,423 = 0·9
Number of villages irrigated.	*No.*	*No.*	*No.*	*No.*
Kharif	493	471	552	714
Rabbi	466	-	609	775

The increase in the percentage of the kharíf crop was due to a better supply having been obtained for the rice and cotton sowings, for the year under review, than in the previous one. The average water-rate in the Lahore District somewhat exceeds Rs. 0·5, the fixed water-rate per acre, owing to charges for unauthorised irrigation. The decrease in the average fluctuating land revenue per acre for the rabbi crop in the Montgomery District is due to the decrease in the proportion of the higher paying crops under Class IV., as compared with last year.

Though the river kept at a fairly good height during the irrigating season up to the end of August, it fell after that month to an abnormally low level, so that the canals ran dry earlier than usual with the result of a poor rabbi crop, though the area watered during the year was larger than that in the previous rabbi.

98. The proportion of flow to lift irrigation is given in the following table for three years :—

Particulars.			1884-85.		1883-84.		1882-83.	
			Kharíf.	Rabbi.	Kharíf.	Rabbi.	Kharíf.	Rabbi.
Flow ...	Area	Acres	38,661	44,189	26,490	38,509	35,209	87,074
	Per cent.	...	87·0	96·8	83·3	97·3	84·6	98·7
Lift ...	Area	Acres	5,750	1,474	5,312	1,063	6,379	1,140
	Per cent.	...	13·0	3·2	16·7	2·7	15·4	1·3
Total ...			44,411	45,663	31,802	39,572	41,588	88,214
			90,074		71,374		129,802	

99. The area and percentage of each class of crop is given below for five years :—

Class.	1884-85.		1883-84.		1882-83.		1881-82.		1880-81.	
	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.
	Acres.		Acres.		Acres.		Acres.		Acres.	
Class I.	7,053	7·83	4,354	6·10	6,505	5·01	14,161	7·89	20,795	13·46
„ II.	10,435	11·58	4,770	6·68	9,530	7·34	19,579	10·90	13,406	8·68
„ III.	26,281	29·18	22,342	31·30	25,235	19·44	37,608	20·94	45,434	29·39
„ IV.	41,559	46·14	38,868	54·46	87,247	67·22	106,287	59·19	73,256	47·41
„ V.	4,746	5·27	1,040	1·46	1,285	0·99	1,943	1·08	1,645	1·06
Total ...	90,074	...	71,374	...	129,802	...	179,578	...	154,536	...

100. The statement below compares the area under the principal crops for five years :—

Crops.	1884-85	1883-84.	1882-83.	1881-82.	1880-81.
	Acres.	Acres.	Acres.	Acres.	Acres.
Rice	6,970	4,287	6,431	14,064	12,837
Cotton	6,982	2,991	6,126	14,816	5,845
Sugar-cane	83	70	94	122	102
Jowár	1,917	4,173	3,900	5,737	4,900
Wheat	21,361	17,672	51,666	68,674	25,372

The falling-off in jowár is probably due to more land having been sown with rice and cotton this year.

101. The following table shows the cost of maintenance for five years :—

Particulars.		1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
Canal ...	Rs. ... / Miles ...	60,536 / 223 = 271·46	71,397 / 223 = 320·16	82,414 / 223 = 369·37	41,760 / 223 = 187·26	50,962 / 223 = 228·53
Rájbahás ...	Rs. ... / Miles ...	7,926 / 97 = 81·71	3,490 / 97 = 35·98	5,603 / 97 = 57·76	3,408 / 97 = 35·13	2,946 / 97 = 30·37

The decrease in the maintenance per mile of canal is due to less outlay on silt clearance ; and the increase in the rate per mile of rájbahás partly to the silt clearance having been heavier this year, but chiefly to the expenditure on the clearance of 1883-84 falling into this year's accounts.

102. The cost of the measurements and the preparation of demand statements was as follows :—

Districts.	Measurements.												Demand Statement.							
	Kharíf.						Rabbi.						Kharíf.				Rabbi.			
	1884-85.			1883-84.			1884-85.			1883-84.			1884-85.		1883-84.		1884-85.		1883-84.	
	Area.	Cost.	Percentage.	Area.	Cost.	Percentage.	Area.	Cost.	Percentage.	Area.	Cost.	Percentage.	Cost.	Percentage.	Cost.	Percentage.	Cost.	Percentage.	Cost.	Percentage.
	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Lahore and Montgomery ...	49,439	268	0·54	34,696	256	0·74	54,410	338	0·62	47,204	286	0·60	305	0·61	210	0·60	294	0·54	290	0·61

In the measurement of the kharíf crop there has been much improvement in the rate due generally to the appointment of canal patwárís and partly to the increased area irrigated. The cost of the preparation of the demand statements increased slightly for the kharíf and fell for the rabbi.

103. The following table shows the dates on which the measurements were commenced and completed and on which the demand statements were submitted to the Deputy Commissioner, and announced by the Executive Engineer in the Montgomery District.

Particulars.	Montgomery District. Kharíf.	Montgomery District. Rabbi.	Lahore District. Kharíf.	Lahore District. Rabbi.
Measurements commenced	1st Octr. '84	2nd Jany. '85	1st Octr. '84	2nd Jany. '85
Measurements completed	12th Novr. '84	14th Feby. '85	1st Novr. '84	15th Feby. '85
Demand statements submitted	5th Jany. '85	2nd April '85	1st Jany. '85	2nd April '85
Announcement completed	31st Decr. '84	6th April '85	...	...

104. The measurements were commenced a month later than in the previous year. This change was not found altogether suitable, and in future the 20th September has been fixed as a proper and safe date on which to commence the work.

105. The follwing table shows the rain-fall at some of the principal stations :—

Months.	Lahore District. Mámoki.	Montgomery District. Dipálpur.	Montgomery District. Pákpattan.	Remarks.
	Inches.	Inches.	Inches.	
Kharif Crop.				
April 1884	...	...	...	
May "	0·05	...	...	
June "	1·00	3·00	2·20	
July "	0·79	4·80	2·00	
August "	5·44	1·60	...	
September "	3·46	2·30	4·00	
Total ...	10·74	11·70	8·20	
Rabbi Crop.				
October 1884	1·69	...	...	
November "	...	...	...	
December "	...	...	...	
January 1885	1·07	0·50	0 50	
February "	0·06	...	...	
March "	...	...	...	
Total ...	2·82	0·50	0·50	
Grand Total ...	13·56	12·20	8·70	
Do. 1883-84 ...	15·26	11·80	6·90	
Difference ...	— 1·70	+ 0·40	— 1·80	

106. The following table shows the area irrigated and estimated value of crops, which amounted to Rs. 12,55,200, against Rs. 7,70,289, in the previous year :—

Crops.	Area irrigated. Flow.	Area irrigated. Lift.	Area irrigated. Total.	Produce per acre.			Estimated produce.	Average rate per rupee.			Estimated value of produce.
	Acres.	Acres.	Acres	Mds.	S.	C.	Mds.	Mds.	S.	C.	Rs.
Kharif.											
Class I—											
Cereals—Rice	6,909	61	6,970	11	20	0	80,155	0	13	0	2,46,631
Spices—Red-pepper	17	21	38	3	0	0	114	0	8	0	570
Miscellaneous—Gardens	39	6	45	Rs.	36	p	er acre.	...	...	...	1,620
Total ...	6,965	88	7,053	...	...	...	..	...	...	...	2,48,821
Class II—											
Sugar-cane	61	22	83	Rs.	70	p	er acre.	...	..	...	5,810
Oil-seed—Til	2,896	311	3,207	4	0	0	12,828	0	9	12	52,628
Fibres—Cotton...	6,041	941	6,982	6	0	0	41,892	0	12	0	1,39,640
Hemp	130	15	145	5	0	0	725	0	8	0	3,625
Miscellaneous—Melons	17	1	18	Rs.	12	p	er acre.	...	.	..	216
Total ...	9,145	1,290	10,435	...	..	...	...	...	...	..	2,01,919
Class III—											
Cereals—Maize (Indian corn) ...	757	573	1,330	9	20	0	12,635	0	34	8	14,649
Jowár	1,662	255	1,917	6	0	0	11,502	0	33	0	13,942
Bajra	7	10	17	4	20	0	76	0	32	0	95
Kangni	689	291	980	5	0	0	4,900	0	38	12	5,058
China	44	45	89	5	0	0	445	1	0	0	445
Swank	31	2	33	5	0	0	165	0	20	0	330
Pulses—Mung	222	7	229	4	0	0	916	0	22	0	1,666
Másh	613	14	627	4	0	0	2,508	0	18	0	5.573
Moth	325	90	415	4	0	0	1,660	0	32	0	2.075
Dyes and Drugs—Tobacco... ...	9	5	14	6	0	0	84	0	10	0	336
Mehndi ...	9	35	44	14	0	0	616	0	10	0	2,464
Indigo ...	2	...	2	...	...	...	...	...	...	...	...
Fodder—Charri	17,476	3,038	20,514	6	0	0	123,084	0	34	0	1,44,804
Miscellaneous—Gára	4	1	5	Rs	12	p	er acre.	...	...	..	60
Munj-kána ...	65	...	65	...	...	...	...	...	...	...	...
Total ...	21,915	4,366	26,281	...	..	...	...	...	...	...	1,91,497
Class IV—											
Miscellaneous—Plantations ...	39	...	39	...	...	...	...	...	...	...	...
Vegetables ...	7	5	12	Rs.	12	p	er acre.	...	...	...	144
Total ...	46	5	51	...	...	...	...	...	..	..	144
Class V—											
Fodder—Grasses	362	1	363	Rs.	3	p	er acre.	...	...	...	1,089
Fallow lands	222	...	222	...	...	...	...	..	..	...	...
Land ploughed but not sown ...	6	...	6	...	...	...	...	...	...	...	...
Total ...	590	1	591	...	...	...	...	...	...	...	1,089
Total Kharif ...	38,661	5,750	44,411	...	...	...	...	...	...	...	6,43,470
Carried over ...	38,661	5,750	44,411	...	...	...	...	...	...	...	6,43,470

Crops.	Area Irrigated. Flow.	Area Irrigated. Lift.	Area Irrigated. Total.	Produce per acre. Mds.	S.	C.	Estimated produce. Mds.	Average rate per rupee. Mds.	S.	C.	Estimated value of produce. Rs.
	Acres.	Acres.	Acres.	Mds.	S.	C.	Mds.	Mds.	S.	C.	Rs.
Brought forward ...	38,661	5,750	44,411	...	...	...	...	...	..	...	6,43,470
Rabbi.											
Class IV—											
Cereals—Wheat	20,286	1,075	21,361	11	0	0	234,971	0	24	4	3,87,581
Barley	244	29	273	12	0	0	3,276	1	0	0	3,276
Pulses—Gram	7,362	38	7,400	14	0	0	103,600	1	6	0	90,087
Massar	12	...	12	4	0	0	48	0	20	0	96
Dyes, Drugs and Spices—Dhania ...	4	7	11	3	0	0	33	0	8	0	165
Zíra (white)...	6	...	6	3	0	0	18	0	8	0	90
Poppy ...	17	...	17	3	0	0	21	0	5	0	168
Oil-seeds—Tára Míra	26	25	51	5	0	0	255	0	20	0	510
Linseed	3	...	3	...	...	...	...	...	...	...	...
Fodder—Sinji	4	3	7	6	0	0	42	1	0	0	42
Miscellaneous—Goja	9,843	66	9,909	13	0	0	128,817	1	0	0	1,28,817
Berra	22	7	29	13	0	0	377	1	0	0	377
Sag	2,178	194	2,372	...	...	...	...	...	...	...	...
Cheral	18	...	18	6	0	0	108	1	8	0	90
Gajar (carrots) ...	3	...	3	Rs.	12	per acre.		...	...	...	36
Methra	9	27	36	6	0	0	216	0	26	0	332
Total ...	40,037	1,471	41,508	...	...	...	...	...	...	...	6,11,667
Class V—											
Fodder—Grass...	21	...	21	Rs.	3	per acre.		...	...	...	63
Miscellaneous—Waban	3,411	3	3,414	...	...	...	...	...	...	...	...
Fallow lands ..	720	...	720	...	...	...	...	...	...	...	...
Total ...	4,152	3	4,155	...	...	...	...	...	...	...	63
Total Rabbi ...	44,189	1,474	45,663	...	...	...	...	...	...	...	6,11,730
Grand Total ...	82,850	7,224	90,074	...	...	...	...	...	...	...	12,55,200

Lower Sutlej and Chenab Inundation Canals.

107. The amount of the Capital Expenditure to the end of the year was Rs. 1,11,115, being Rs. 164 more than that of the previous year. This increase was due to variations in the Suspense Balances.

108. The Revenue Account was as follows :—

Expenditure.			Rs.	Receipts.		Rs.
Extensions and Improvements			... 16,001	Water-rates from Irrigation		... 173
Maintenance and Repairs			... 1,28,070	Miscellaneous		... 7,323
Establishment—				Contributions from Zar-i-nágha		... 1,24,525
		Rs.		Statute Labor		... 1,94,231
Direction		... 20,016		Total		... 3,26,252
Executive		... 43,850			Rs.	
Medical		... 678		Share of land revenue	... 3,09,187	
Revenue	7,456			Do. on jagír lands	... 8,848	
Fees on Collection	1,555					3,18,035
		9,011				
			73,555			
Tools and Plant			... 382			
Refunds of Revenue			... .00			
Statute Labor			... 1,94,231			
Total			... 4,12,339			
Indirect Charges— Leave and Pension allowances			... 10,323			
Total Working Expenses			... 4,22,662			
Balance Profit			... 2,21,625			
Grand Total			... 6,44,287	Grand Total		... 6,44,287

109. *The profit from the above account was* Rs. 2,21,625, or Rs. 199·45 per cent. on the capital invested, against Rs. 2,15,709 or Rs. 194·42 per cent. the profit in the year 1883-84 after deducting from that year's operations, the adjustments of the previous year.

110. The expenditure from the Zar-i-nágha Fund on Extensions and Improvements was Rs. 8,524, of which Rs. 7,655 was spent on regulators, Rs. 590 on two bridges, and the balance, Rs. 279, on Petty items. The expenditure on repairs was Rs. 1,16,001, being Rs. 32,108 less than that of the previous year. This decrease was due to diminished expenditure on new Heads.

111. The expenditure from Imperial Funds for Extensions and Improvements was Rs 7,477. This was chiefly incurred on the construction of two Inspection Bungalows in the Sutlej Sub-Division and the completion of two others in the Chenab Sub-Division. On Repairs Rs. 12,069, or Rs 2,372 less than in the previous year, was expended. The decrease was due to the Inspection Bungalows and the Chenab Bunds requiring less repairs, and to some of the Plantations becoming more mature and requiring less watering.

112. There was a decrease of Rs. 6,751 in the Establishment charges compared with those of the previous year, Rs. 4,728 of which under the head of Direction resulted from the decreased expenditure on Repairs. Of the balance, Rs. 1,291 was due to the absence of the abnormal charges which appeared under Contingencies in the previous year, and the remainder to fluctuations under Salaries and Contingencies.

113. There was a decrease of Rs. 655 under Tools and Plant, Rs. 396 of which was due to Direction charges, and the balance to fluctuations which will necessarily occur in every year's requirements.

114. Rupees 100 was refunded on account of Judicial fines.

115. The detailed cost of Establishment is compared below for five years :—

DETAILS.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
ENGINEERING.	Rs.	Rs.	Rs.	Rs.	Rs.
Direction ...	20,016	24,744	28,202	20,288	47,040
Executive ...	43,850	45,265	48,067	37,946	38,940
Medical ...	678	708	1,039	720	955
Total ...	64,544	70,717	77,308	58,954	86,935
REVENUE.					
Collection and Police ...	7,456	8,034	8,478	6,296	3,311
Fees to Lambardárs and Patwárís ...	1,555	1,555	...	1,555	1,555
Total ...	9,011	9,589	8,478	7,851	4,866
GRAND TOTAL ...	73,555	80,306	85,786	66,805	91,801
	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated ...	372,607	329,976	362,975	346,278	299,284
	Rs.	Rs.	Rs.	Rs.	Rs.
Rate per acre ...	0·20	0·24	0·23	0·19	0·31

The decrease in percentage is due to the increase in the area irrigated and the decrease in the Establishment charges.

116. The following table shows the working expenses for five years :—

DETAILS.	1884-85.	1883-84	1882-83.	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rt.	Rs.
I A.—Extensions and Improvements.	16,001	12,481	1,164	235	312
I B.—Maintenance and Repairs,	1,28,070	1,62,550	1,25,383	76,131	86,222
II —Establishment ...	73,555	80,306	85,786	66,805	91,801
III.—Tools and Plant ...	382	1,037	449	282	748
IV.—Refunds of Revenue ...	100	...	...	70	...
V.—Profit and Loss ...	...	174	8	...	...
Statute Labor ...	1,94,231	1,94,231	1,94,231	1,94,231	2,98,927
	4,12,339	4,50,779	4,07,021	3,37,754	4,78,010
Book Charges ...	10,323	11,293	9,701	13,519	8,717
Total Working Expenses ...	4,22,662	4,62,072	4,16,722	3,51,273	4,86,727
	Acres.	Acres.	Acres.	Acres	Acres.
Area irrigated ...	372,607	329,976	362,275	346,978	299,284
	Rs.	Rs.	Rs.	Rs.	Rs.
Rate per acre excluding Book Charges ...	1·11	1·37	1·12	0.98	1·60
Ditto including do.	1·13	1·40	1·15	1·01	1·63

The decrease in the percentage is due to the increased area irrigated and to the diminution in the Maintenance charges.

117. The following table shows the result of the operations for five years according to both Collections and Assessments :—

DETAILS.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
COLLECTIONS.	Rs.	Rs.	Rs.	Rs.	Rs.
Water-rates from Irrigation ...	173	173	173	143	80
Miscellaneous ...	7,323	9,948	7,845	15,483	6,383
Contributions from Zar-i-nágha ...	1,24,525	1,54,922	1,12,091	64,625	74,972
Statute Labor ...	1,94,231	1,94,231	1,94,231	1,94,231	2,98,927
Total ...	3,26,252	3,59,274	3,14,340	2,74,482	3,80,362
Enhanced Land Revenue ...	3,18,035	3,47,482	3,05,203	3,07,837	5,64,707
GRAND TOTAL ...	6,44,287	7,06,756	6,19,543	5,82,319	9,45,069
ASSESSMENTS.					
Water-rates from Irrigation ...	173	173	173	193	164
Miscellaneous ...	7,323	9,948	7,845	15,483	6,383
Contributions from Zar-i-nágha ...	1,24,525	1,54,922	1,12,091	64,625	74,972
Statute Labor ...	1,94,231	1,94,231	1,94,231	1,94,231	1,94,231
Total ...	3,26,252	3,59,274	3,14,340	2,74,532	2,75,750
Enhanced Land Revenue ...	3,18,035	3,18,507	3,14,658	3,14,628	3,09,687
GRAND TOTAL ...	6,44,287	6,77,781	6,28,998	5,89,160	5,85,437

The decrease in Collections, as compared with those of the previous year, was due to the smaller contributions from the Zar-i-nágha Fund, as noted in paragraph 110, a falling-off in the amount credited as the share of Land Revenue and some diminution to the Miscellaneous Revenue.

118. The Miscellaneous Revenue for five years is detailed below :—

DETAILS.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rs.	Rs.
V.—Receipts from Plantations ...	5,390	4,634	37	30	55
VI.— Do. from other Canal Produce ...	1,227	4,489	6,815	14,007	4,871
IX.—Rents of Buildings ...	127	143	148	171	174
X.—Fines ...	204	202	372	714	432
XI.—Miscellaneous and other receipts	375	480	473	561	851
Total ..	7,323	9,948	7,845	15,483	6,383

119. The Zar-i-nágha account closed as follows :—

		Rs.	Rs.	Rs
Balance on 1st April 1884			1,13,460	
Realizations during the year			74,642	1,88,102
Deduct, Expenditure—				
		Rs.	Rs.	Rs.
1 A.—Extensions and Improvements ...		8,524		
1 B.—Maintenance and Repairs ...		1,16,001	1,24,525	
II.—Establishment			2,382	1,26,907
Balance on 1st April 1885				61,195

Although the working expenses were less than in the previous year, the balance at the credit of the Fine Fund had decreased Rs. 52,265.

120. The following table shows the attendance of Statute Labor for the last two years :—

Particulars.	1884-85.			1883-84.			Difference.	
	Sutlej.	Chenab.	Total.	Sutlej.	Chenab.	Total.	More.	Less.
Called out	426,608	195,398	622,006	380,995	184,611	565,606	56,400	...
Present	307,755	137,390	445.145	299,404	143.256	442.660	2,485	...
Remitted to Pancháyats	17,363	9,586	26,949	19,533	10,710	30,243	...	*3,294*
Total ...	325,118	146,976	472,094	318,937	153,966	472,903	...	809
Actual Absentees ...	101,490	48,422	149,912	62,058	30,645	*92,703*	*57,209*	...

The increase in the number called out is due chiefly to the cancelling of Rule 21, in consequence of which no chhers were compelled to commute this year, and partly to their being kept at work overtime on new heads, &c. The decrease in the number remitted to Pancháyats is owing to the fact that formerly each member of the Pancháyat had remitted to him two chhers daily. In many cases they were actually assessed at less and made up the difference by selling the balance to others. This has been now stopped, and each member is only allowed to have remitted his own actual assessment up to the limit of two chhers daily. The result is a considerable decrease in the total number thus remitted. The large increase in the number of absentees is made up chiefly of those who were formerly compelled to commute under Rule 21 and were not shown then as absentees, whereas they are so now.

121. The following table compares the percentage of laborers present and absent for five years and the fines levied for absentees :—

Year.	Present.	Remitted.	Absent	Fines in Rupees.	Remarks.			
						Rs. (*a*)	Rs. (*b*)	Rs. (*c*)
1884-85 ...	71·57	4·33	24·10	74,956	Assessed under Rule 21 ...	21,839	13,988	23,096
1883-84 ...	78·26	5·35	16·39	(*a*)68,191	Actual fines on absentees.	46,352	77,102	46,652
1882-83 ...	69·99	4·57	25·44	(*b*)91,090	Total ...	68,191	91,090	69,748
1881-82 ...	75·70	6·10	18·20	(*c*)69,748				
1880-81 ...	78·30	4·80	16·90	48,474				

Though there was a large increase in the number of absentees during the year over that of the previous one, as already explained, yet it was not nearly so large as in the year 1882-83, when notwithstanding the commutations under Rule 21 the number of absentees was the largest known during a period of 11 years.

122. The proportion of kharíf and rabbi irrigation for five years is compared in the following table :—

Crops.	1884-85.		1883-84.		1882-83.		1881-82.		1880-81.	
	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.
	Acres.		Acres.		Acres.		Acres.		Acres.	
Kharíf ...	196,138	52·64	172,042	52·13	207,480	57·16	199,773	57·69	161,910	54·10
Rabbi ...	176,469	47·36	157,934	47·87	155,495	42·84	146,505	42·31	137,374	45·90
Total ...	372,607	...	329,976	...	362,975	...	346,278	...	299,284	...

The percentages are about the same as in the previous year and call for no remarks.

123. The following table shows the area irrigated from each canal during the last five years :—

Names of Canals.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Acres.	Acres.	Acres.	Acres.	Acres.
Sutlej Series.					
Díwánwah Mailsi	42,099	36,541	38,563	36,590	28,009
Jámwah Khurd	21,314	18,128	19,482	20,226	17,994
Chattarwah	3,103	2,420	2,713	3,530	3,359
Jámwah Kalán	13,172	9,720	11,222	13,584	10,162
Kábilwah	5,316	4,635	6,288	8,717	5,9[illegible]9
Sádiqwah	1,314	1,293	1,064	1,717	970
Bahávalwah Mailsi	15,659	13,743	16,140	19,751	17,818
Sultánwah	12,887	13,183	14,712	15,431	11,940
Abanwah	3,208	3,231	3,310	3,576	4,249
Jamrániwah	3,810	3,799	3,643	3,563	3,598
Muhammadwah	15,934	11,751	14,406	12,752	3,032
Sardárwah	25,688	21,825	21,012	18,641	17,847
Bahávalwah Lodhrán	9,494	8,315	9,579	8,854	11,213
Shekhwah Sharqia	5,902	4,639	5,862	5,020	6,826
Mubárakwah	7,601	6,303	7,531	7,181	8,182
Khánwah	4,721	4,031	4,448	4,587	4,746
Shekhwah Gharbia	1,673	1,203	1,499	1,257	16
Háfizwah	2,917	2,807	2,474	3,136	1,281
Bahádurwah	497	443	351	268	76
Total ...	196,309	168,010	184,299	188,381	157,247
Chenab Series.					
Mattíthal	8,775	7,108	10,066	7,028	5,061
Khádal	5,484	5,048	5,321	5,590	3,961
Táhirpur	5,353	4,409	5,179	4,890	4,737
Daurána Langána	13,266	10,249	12,961	10,946	7,725
Shahpur	8,962	7,751	8,552	7,840	7,511
Wali Muhammad	42,632	39,287	43,616	42,007	33,655
Sikandarabad	42,610	41,181	41,934	37,231	35,655
Gajjúhatta	18,456	17,832	19,469	15,661	16,170
Bakhtúwah				16,618	17,955
Dhundu	} 23,022	21,689	{ 21,737	3,169	3,615
Panjáni			2,723		
Sikandarwah	1,541	1,286	1,327	1,027	1,206
Bilochánwála	4,277	3,938	4,060	4,591	3,555
	1,920	2,188	1,731	1,299	1,231
Total ...	176,298	161,966	178,676	157,897	142,037
Grand Total ...	372,607	329,976	362,975	346,278	299,284
Total 1880-81 to 1883-84 ...		1,338,513			
Average ...		334,628			
Difference ..	More	37,979			

The duty on the Sutlej Canals was 65·24 acres per cubic foot and on the Chenab Canals 62·7 acres per cubic foot as against 62·66 and 80·87 in the previous year.

124. The following table explains the reason of the differences :—

Names of Canals.	1884-85.			1883-84.		
	Mean discharge in cubic feet.	Area in acres.	Duty per cubic foot.	Mean discharge in cubic feet.	Area in acres.	Duty per cubic foot.
			Acres.			Acres.
Sutlej series	2,051·63	133,866	65·24	1,782·65	111,706	62·66
Chenab series	2,515·32	157,723	62·70	1,794·12	145,099	80·87

125. The percentage of flow to lift is given in the following table for the last five years :—

Details.	1884-85.		1883-84.		1882-83.		1881-82.		1880-81.	
	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.
	Acres.		Acres.		Acres.		Acres.		Acres.	
Flow	318,246	85·4	277,529	84·1	307,384	84·7	288,682	83·4	235,212	78·6
Lift	54,361	14·6	52,447	15·9	55,591	15·3	57,596	16·6	64,072	21·4
Total ...	372,607	...	329,976	...	362,975	...	346,278	...	299,284	...

The increase in the flow irrigation was due to a higher level of water in the canals.

126. The levels of the Sutlej and Chenab rivers during the irrigating months for the last two years are compared below :—

Months.	Sutlej.			Chenab.		
	1884-85.	1883-84.	Difference.	1884-85.	1883-84.	Difference.
	Feet.	Feet.		Feet.	Feet.	
April	369·02	368·46	+0·56	392·94	392·23	+0·71
May	370·16	369·42	+0·74	393·79	393·68	+0·11
June	371·80	370·14	+1·66	395·32	394·26	+1·06
July	373·37	373·18	+0·19	396·35	396·13	+0·22
August	376·09	373·21	+2·88	396·94	394·85	+2·09
September	373·76	373·03	+0·73	395·18	394·99	+0·19

127. The area and percentage of each class of crop is given below for five years :—

Class.	1884-85.		1883-84.		1882-83.		1881-82.		1880-81.	
	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.
Class I	Acres. 2,879	0·8	Acres. 2,957	0·9	Acres. 3,218	0·9	Acres. 3,133	0·9	Acres. 3,098	1·0
" II	12,710	3·4	12,258	3·7	15,343	4·2	16,127	4·6	17,349	5·8
" III	278,263	74·7	246,071	74·6	268,015	73·9	248,898	71·9	203,850	68·1
" IV	78,755	21·1	68,690	20·8	76,399	21·0	78,120	22·6	74,987	25·1
Total ...	372,607	...	329,976	...	362,975	...	346,278	...	299,284	...

The percentages are about the same as those of the two previous years.

128. The statement below compares the area of the principal crops for the last five years :—

Crops.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Acres.	Acres.	Acres.	Acres.	Acres.
Sugar-cane	2,879	2,957	3,218	3,133	3,098
Rice	11,780	11,411	14,525	15,411	16,691
Cotton	40,327	29,661	31,641	36,923	32,496
Indigo	59,549	58,476	80,735	65,569	34,612
Millet (Jowár)	55,360	46,667	50,520	52,823	49,960
Wheat	126,103	113,758	114,320	104,935	98,678
Turnips	31,031	29,125	27,528	25,290	22,187

The area under rice has decreased in the last two years owing to much of the land formerly cultivated with that crop having improved so as to be capable of bearing superior crops which are in consequence replacing it. The increase under cotton, indigo, millet, wheat and turnips is due to the more favorable state of the rivers.

129. The value of labor supplied was—

	Rs.	Rs.
Sutlej Canals	1,03,367	
Chenab Canals	49,058	
		1,52,425
Zar-i-nágha or fines on absentees		74,956
Water-rate		173
Share of Land Revenue		3,18,035
Total ...		5,45,589

The cost of cultivation was therefore $\frac{\text{Rs } 545589}{\text{Acres } 372607} = 1{\cdot}46$ against 1·61 in the previous year, the decrease being due to the increase in the area irrigated.

130. The cost of measurement for the last two years is given in the following table :—

Map or Chain.	Kharif.										Rabbi.									
	1884-85.					1883-84.					1884-85.					1883-84.				
	Area.	Cost.			Percentage.	Area.	Cost.			Percentage.	Area.	Cost.			Percentage.	Area.	Cost.			Percentage.
	Acres.	Rs.	A.	P.	Rs.	Acres.	Rs.	A.	P.	Rs.	Acres.	Rs.	A.	P.	Rs.	Acres.	Rs.	A.	P.	Rs.
Map	196,138	1,241	2	3	0·63	172,042	1,323	12	5	0·77	176,469	1,116	10	11	0·63	157,934	1,215	3	7	0·77

The above figures will not agree with those entered in Examiner's Statement C. which only includes the fixed allowances paid to the Patwárís. In future the Examiner will be supplied with the correct figures. The larger area irrigated and some slight saving in the expenditure on check measurements account for the decrease.

131. The dates on which the measurement papers were received from the Deputy Commissioner were as follows :—

Tahsils.		*Earliest date.*		*Latest date.*
Mooltan	...	2nd December 1884	...	22nd December 1884.
Shujabad	...	27th November 1884	...	16th ditto.
Mailsi	...	29th ditto	...	2nd January 1885.
Lodhrán	...	27th ditto	...	16th December 1884.
Sarái Sidhu	...	15th ditto	...	18th ditto.

132. The following table shows the rain-fall at the principal stations in the District :—

Months.	Mooltan.	Shujabad.	*Mailsi.*	*Lodhrán.*	*Sarái Sidhu.*
Kharif Crop.	Inches.	Inches.	Inches.	Inches.	Inches.
April 1884	...	...	...	...	...
May "	...	0·1	...	...	...
June "	1·1	1·2	0·5	0·7	1·2
July "	2·5	2·7	1 2	0·9	1·2
August "	1·2	1·2	1·1	...	1·9
September "	1·3	1·8	2·2	2·6	1 9
Total ...	6·1	7·0	5·0	4·2	6·2
Rabbi Crop.					
October 1884	...	...	...	...	...
November "	...	...	...	...	...
December "	...	...	...	...	...
January 1885	1·1	1·0	0·4	0·5	1·0
February "	...	...	...	...	0·1
March "	0·5	0·1	...	...	0·4
Total ...	1·6	1·1	0·4	0·5	1·5
Grand Total ...	7·7	8·1	5·4	4·7	7·7
Do. 1883-84 ...	6·2	5·2	4·4	4 4	4·6
Difference ...	+ 1·5	+ 2 9	+ 1·0	+ 0·3	+ 3·1

133. The following table shows the area irrigated and the value of crops grown which amounted to Rs. 79,22,478 against Rs. 73,27,311 in the previous year. The increase is due to the larger area irrigated.

Names of Crops.	Area Irrigated. Flow.	Area Irrigated. Lift.	Area Irrigated. Total.	Produce per acre.			Estimated produce.			Average rate per rupee.			Total value of produce.		
KHARIF.	Acres.	Acres.	Acres.	Mds.	S.	C.	Mds.	S.	C.	Mds.	S.	C.	Rs.	A.	P.
Class I.—															
Sugar-cane	...	...	2,879·0	40	0	0	115,160	0	0	2	0	0	57,580	0	0
Class II.—															
Cereals— Rice ...	...	...	11,780·3	12	0	0	141,363	24	0	0	30	0	1,88,484	12	9
Miscellaneous—Gardens ...	...	...	927·9	Rs. 60 per acre.					...	...	...	...	55,674	0	0
Total ...	...	...	12,708·2	...	...	...	...		...	...	...	...	2,44,158	12	9
Class III.—															
Fibres ... Cotton ...	...	...	40,326·6	4	0	0	161,306	16	0	0	2	12	23,46,274	14	5
Fibres ... Hemp ...	...	...	1·4	6	0	0	8	16	0	0	5	0	67	3	2
1 yes, drugs and spices Indigo ...	...	...	59,548·9	0	13	0	19,353	15	11	0	0	12	10,32,180	14	8
1 yes, drugs and spices Chillies ...	...	...	112·2	4	0	0	448	32	0	0	7	0	2,564	9	1
1 yes, drugs and spices Mehndi ...	...	...	85·6	13	20	0	1,155	24	0	0	26	0	1,777	15	5
Oil-seeds— Til ...	...	...	12,199·6	6	0	0	73,197	24	0	0	10	0	2,92,790	6	5
Miscellaneous—Vegetables ...	...	...	266·2	...	...	...	...	...	...	...	...	...	10,648	0	0
Wari ...	...	...	25 5	...	...	...	...	...	...	...	...	...	1,020	0	0
Total ...	...	...	112,566·0	...	..	...	...	...	...	...	...	...	36,87,323	15	2
Class IV.—															
Cereals ... Jowár (great millet) ...	...	...	55,360·1	10	0	0	553,601	0	0	0	25	0	8,85,761	9	7
Cereals ... Bájra (spiked millet) ...	...	...	7,913·4	12	0	0	94,960	32	0	0	24	0	1,58,268	0	0
Cereals ... Sowánk ...	...	...	642·0	8	0	0	5,136	0	0	0	17	0	12,084	11	3
Cereals ... Kangni (Italian millet) ...	...	...	180·4	7	0	0	1,262	32	0	0	24	0	2,104	10	8
Cereals ... Maize (Indian corn) ...	...	...	251·4	Rs. 30 per acre.				...	...	...	...	...	7,542	0	0
Cereals ... Chína ...	...	...	1,923·8	13	0	0	25.009	16	0	0	26	0	38,476	0	0
Pulses ... Másh ...	...	...	255·3	5	0	0	1,276	20	0	0	16	0	3,191	4	0
Pulses ... Moth ...	...	...	632·6	5	0	0	3,163	0	0	0	24	0	5,271	10	8
Pulses ... Mandua ...	...	...	1·3	6	20	0	8	18	0	1	10	0	6	12	2
Miscellaneous	...	...	824 2	...	...	...	...	...	...	...	...	...	13,700	5	4
Total ...	...	...	67,984·5	...	...	...	...	...	...	...	...	...	11,26,406	15	8
TOTAL KHARIF ...	...	...	196,137·7	...	...	...	...	...	...	...	...	...	51,15,469	11	7
RABBI.															
Class II.—															
Miscellaneous Nurseries ...	...	...	1·0	...	...		...	...	...	...	...	..	...	...	...
Miscellaneous Gardens ...	...	...	0·6	Rs. 20 per acre.				...	...	...	...	...	12	0	0
Total ...	...	...	1·6	...	...	...	...	...	...	...	...	...	12	0	0
Class III.—															
Cereals ... Wheat ...	...	...	126,103·3	10	0	0	1,261,033	0	0	0	20	0	25,22,066	0	0
Cereals ... Barley ...	...	...	1,546·5	12	0	0	18,558	0	0	0	27	0	27,493	5	4
Cereals ... Chína ...	...	...	52 6	10	0	0	526	0	0	0	24	0	809	3	8
Drugs spices Tobacco ...	...	...	64·9	8	0	0	519	8	0	0	4	0	5,192	0	0
Drugs spices Chillies ...	...	...	0·9	4	0	0	3	24	0	0	7	0	20	9	1
Oil-seeds ... Sarson ...	...	...	50 3	6	0	0	301	32	0	0	12	8	965	12	1
Oil-seeds ... Ussun ...	...	...	6,647·2	5	0	0	33,236	0	0	0	18	0	73,857	12	5
Miscellaneous Turnips ...	...	...	31,031·4	8	0	0	248,251	8	0	4	0	0	62,062	12	9
Miscellaneous Carrots ...	...	...	49·4	Rs. 20 per acre.				...	...	...	...	...	988	0	0
Miscellaneous Vegetables ...	...	...	147·2	45	0	0	6,624	0	0	2	0	0	2,649	9	7
Miscellaneous Wari ...	...	...	3·4	Rs. 40 per acre.				...	...	...	...	...	136	0	0
Total ...	...	...	165,697·1	...	...	...	...	...	...	...	..	...	26,96,241	0	11
Class IV.—															
Pulses .. Gram ...	...	...	6,734·2	7	0	0	47,139	16	0	0	25	0	75,423	0	8
Pulses .. Peas ...	...	...	3,183·7	6	0	0	19,102	8	0	0	32	0	23,877	12	0
Pulses .. Massúr ...	...	...	144·5	4	0	0	578	0	0	0	25	0	924	12	9
Drugs, &c.... Dhanya ...	...	...	20·9	4	0	0	83	24	0	0	9	0	371	8	11
Drugs, &c.... Charal ...	...	...	82·1	9	20	0	779	38	0	0	36	0	866	9	9
Miscellaneous crops ...	...	...	605·2	...	...	...	...	...	...	...	...	...	9,291	7	11
Total ...	...	...	10,770·6	...	..	...	...	..	...	...	...	...	1,10,755	4	0
TOTAL RABBI	...	...	176,469·3	...	...	...	...	...	...	...	...	...	28,07,008	4	11
GRAND TOTAL ...	...	...	372,607·0	...	...	...	...	...	...	...	...	...	79,22,478	0	6

Indus Inundation Canals.

134. The Capital Account at the end of the year was Rs. 7,07,635, or Rs. 81 less than that shown at the end of the previous year, due to a decrease in the Suspense Balances.

135. The Revenue Account is as follows :—

Expenditure.			Rs.	Receipts.	Rs.	Rs.
Extensions and Improvements ...			35,413	Miscellaneous ...	15,953	
Maintenance and Repairs ...			1,29,827	Clearance rates ..	52,338	68,291
Establishment—		Rs.		Share of Land Revenue	1,42,124	
Direction		15,472		Do. do. on Jágír lands ...	17,604	1,59,728
Executive		49,296				
Medical		846				
Revenue ...	10,096					
Fees on collection ...	391	10,487	76,101			
Tools and Plant—						
Direction		82				
Executive		455	537			
Refunds of Revenue ...			41			
Total ...			2,41,919	Total ...		2,28,019
Indirect charges—						
Leave and Pension allowances ...			10,654	Balance Loss		24,554
Grand Total ...			2,52,573	Grand Total ...		2,52,573

136. The above account shows a loss in the year's operations of Rs. 24,554 or 3·46 per cent. on the Capital invested, against 10·18 per cent. in the previous year. The total net revenue earned to the end of the year was Rs. 27,678.

137. There was an increase in the expenditure under "Extensions and Improvements" of Rs. 16,955, the increase being due to the construction of Protective works which cost Rs. 30,526, against Rs. 13,941 in the previous year.

138. The expenditure on "Maintenance and Repairs" amounted to Rs. 1,29,827, or Rs. 59,263 less than that of the previous year: of this sum Rs. 48,827 was due to a smaller expenditure having been incurred on account of the past and current seasons' clearances than was the case in the previous year, as noticed in paragraph 122 of the Report for that year, and the balance, Rs. 10,436, was due to less repairs having been required to the Drainage and Protective Works.

139. There was a decrease of Rs. 9,135 on Establishment, Rs. 8,326 of which was due to Direction charges in consequence of the diminution of the Maintenance charges referred to in the previous para., and the balance, Rs. 809, to fluctuations in the cost of the Executive and Revenue Establishments.

140. The cost of Establishment for five years is detailed below :—

DETAILS.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
ENGINEERING.	Rs.	Rs.	Rs.	Rs.	Rs.
Direction	15,472	23,798	18,389	10,265	— 8,821
Executive	49,296	47,049	42,737	42,700	43,619
Medical	846	763	1,053	704	881
Total ...	65,614	71,610	62,179	53,669	35,679
REVENUE.					
Collection of Police	10,096	10,874	11,609	11,608	11,717
Fees to Lambardárs and Patwáris ...	391	2,752	2,523	2,523	2,523
Total ...	10,487	13,626	14,132	14,131	14,240
Plantations	...	...	...	...	466
GRAND TOTAL ...	76,101	85,236	76,311	67,800	50,385
	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated	186,302	150,418	190,620	190,802	164,385
	Rs.	Rs.	Rs.	Rs.	Rs.
Rate per acre	0·41	0·57	0·40	0·36	0·31

		Rs.	Rs.
141.	The clearance rate was as before		... 54,000
I.	Half cost of clearance	44,624	
II.	Half cost of establishment for supervising works	726	
III.	Half cost of repairs of banks	5,743	
IV.	Whole cost of distributing establishment ...	1,847	
V.	Half cost of measuring establishment ...	413	
			53,353
	Balance Profit to Government ...		647

against a loss of Rs. 20,901 in the previous year. The loss to Government now amounts to Rs. 41,234. The balance uncollected at the end of the year amounts to Rs. 55,444.

142. The following table shows the working expenses and the rates per acre irrigated during the last five years :—

DETAILS.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rs.	Rs.
I A. Extensions and Improvements...	35,413	18,458	34,037	4,591	5,047
I B. Maintenance and Repairs ...	1,29,827	1,89,090	1,05,274	99,591	95,000
II. Establishment ...	76,101	85,236	76,311	67,800	50,385
III. Tools and Plant ...	537	1,364	1,159	539	508
IV. Refunds of Revenue ...	41	68	9	...	...
V. Profit and Loss ...	...	334	5	...	...
Total ...	2,41,919	2,94,550	2,16,795	1,72,521	1,50,940
Book charges	10,654	11,933	- 8,214	13,501	14,092
Total Working Expenses ...	2,52,573	3,06,483	2,25,009	1,86,022	1,65,032
	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated	186,302	150,418	190,620	190,802	164,385
	Rs.	Rs.	Rs.	Rs.	Rs.
Rate per acre excluding Book charges...	1·30	1·96	1·14	0·90	0·92
Rate per acre including Book charges...	1·36	2·04	1·18	0·97	1·00

The decrease per acre is due to the decrease in the Maintenance charges and to the increase in the area irrigated.

143. The following table shows the result of the operations for five years abstracted under the head of Collections and Assessments.

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
Collections.	Rs.	Rs.	Rs.	Rs.	Rs.
Clearance rates	52,338	53,782	54,758	57,113	55,743
Miscellaneous	15,953	23,565	11,357	12,745	6,907
Total ...	68,291	77,347	66,115	69,858	62,650
Enhanced Land Revenue ...	1,59,728	1,57,026	1,57,166	2,56,023	1,57,953
Grand Total ...	2,28,019	2,34,373	2,23,281	3,25,881	2,20,603
Assessments.					
Clearance rates	54,000	54,000	54,000	54,000	54,000
Miscellaneous	15,953	23,565	11,357	12,745	6,907
Total ...	69,953	77,565	65,357	66,745	60,907
Enhanced Land Revenue ...	1,59,728	1,57,026	1,57,166	1,57,498	1,57,953
Grand Total ...	2,29,681	2,34,591	2,22,523	2,24,243	2,18,860
Capital invested	7,07,635	7,07,716	7,08,086	7,07,822	7,11,346
Working expenses	2,52,573	3,06,483	2,25,009	1,86,022	1,65,032
Profit on Capital.					
Collections	-24,554	-72,110	-1,728	1,39,859	55,571
Per cent. ...	-3·46	-10·18	-0·24	19·75	7·81
Assessments	-22,892	-71,892	-2,486	38,221	53,828
Per cent. ...	-3·23	-10·16	-0·35	5·40	7·57

144. The following table details the revenue under *this head during the* last five years :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rs.	Rs.
V.—Receipts from Plantations ...	1,490	5,590	402	2,269	2,128
VI.— Ditto Other Canal Produce	12,536	16,541	10,336	9,059	2,210
IX.—Rents of buildings	275	50	...	...	...
X.—Fines	1,549	999	294	563	1,084
XI.—Miscellaneous and Other Receipts	103	385	325	854	1,485
Total ...	15,953	23,565	11,357	12,745	6,907

There was a decrease in the Miscellaneous income of Rs. 7,612, due to the falling-off in Receipts from Plantations and Canal Produce. The former is accounted for by the smaller demand for trees required on the River Protective

Works. The latter appears under the head of Water-rates and Share of Government Produce in the Dhundi, Massúwah, Dhori and Fázilwah Canals and Rakh Chibri.

145. The area and percentage of each harvest for five years is given in the following table :—

Crops.	1884-85.		1883-84.		1882-83.		1881-82.		1880-81.	
	Area.	Per cent.	Area.	Per cent.	Area.	Per cent.	Area.	Per cent.	Area.	Per cent.
	Acres.		Acres.		Acres.		Acres.		Acres.	
Kharíf ...	135,639	72·81	111,365	74·04	141,644	74·31	128,782	67·50	121,075	73·65
Rabbi ...	50,663	27·19	39,053	25·96	48,976	25·69	62,020	32·50	43,310	26·35
Total ...	186,302	...	150,418	...	190,620	...	190,802	...	164,385	...

*The increase in the area irrigated in both crops was due to the large and well distributed rain fall which allowed a somewhat larger amount of water entering the canal, to mature a much more considerable area of crops than in the previous year. The average area irrigated during the previous five years was 168,112 acres, so that the area irrigated during the year was in excess by 18,190 acres. The area flooded during the year was 3,700 acres against 3,401 in previous year.

146. The following table shows the area watered by each canal during the last five years :—

No.	Names of Canals.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
		Acres.	Acres.	Acres.	Acres.	Acres.
1	Massúwah	4,507	2,595	3,739	3,628	2,842
2	Mánka	36,274	25,600	37,449	35,811	27,710
3	Kot Dáúd	3,360	3,226	3,036	3,762	3,936
4	Shoria	28,464	24,806	33,024	29,771	33,138
5	Kastúri	13,485	13,036	19,262	20,181	17,633
6	Dhingána	20,290	15,962	19,040	18,811	20,407
7	Chibri	8,295	6,943	6,444	7,545	4,210
8	Sáhibán	12,494	10,720	13,256	14,389	10,927
9	Gámúnwála	5,057	3,616	4,575	4,542	3,664
10	Sohan	9,402	7,599	9,028	9,368	7,[illegible]24
11	Núr	13,154	11,002	10,558	13,334	7,186
12	Dhundi	18,550	14,554	19,541	17,053	13,134
13	Kutab	6,266	5,864	6,337	7,211	7,046
14	Kádra	4,887	4,189	4,523	5,396	4,728
15	Fázilwah	1,817	706	808	...	...
	Total ...	186,302	150,418	190,620	190,802	164,385

The average duty throughout the canals, 53·67 acres per cubic foot, was, owing to the more favorable rain-fall and somewhat better supplies in the canals, greater than that in the previous year, 46·96 acres per cubic foot.

147. The proportion of flow to lift irrigation is given below :—

Particulars.		1884-85. Kharif.	1884-85. Rabbi.	1883-84. Kharif.	1883-84. Rabbi.	1882-83. Kharif.	1882-83. Rabbi.	1881-82. Kharif.	1881-82. Rabbi.	1880-81. Kharif.	1880-81. Rabbi.
Flow ...	Area ... Acres	120,824	47,444	97,835	36,240	128,000	44,403	114,157	55,957	108,834	39,702
	Percentage ...	89·08	93·65	87·85	92·80	90·36	90·66	88·60	90·20	89·90	91·60
Lift ...	Area ... Acres	14,815	3,219	13,530	2,813	13,644	4,573	14,625	6,063	12,241	3,608
	Percentage ...	10·92	6·35	12·15	7·20	9·64	9·34	11·40	9·80	10·10	8·40
Total ...		135,639	50,663	111,365	39,053	141,644	48,976	128,782	62,020	121,075	43,310
		186,302		150,418		190,620		190,802		164,385	

The better supply in the canals during the month of August, as well as the beginning and end of the season, and the higher level of the water in consequence, explains the increase in the proportion of the flow to the lift irrigation.

148. The area and percentage of each class of crops is given below :—

Class.	1884-85. Area.	1884-85. Percentage.	1883-84. Area.	1883-84. Percentage.	1882-83. Area.	1882-83. Percentage.	1881-82. Area.	1881-82. Percentage.	1880-81. Area.	1880-81. Percentage.
	Acres.		Acres.		Acres.		Acres.		Acres.	
Class I ...	24	0·01	39	0·03	86	0·04	46	0·03	58	0·03
" II ...	14,358	7·71	11,489	7·64	16,181	8·49	12,672	6·64	13,392	8·15
" III ...	99,904	53·62	82,607	54·92	100,184	52·56	112,950	59·20	84,630	51·49
" IV ...	71,504	38·38	55,821	37·11	73,285	38·44	64,868	33·99	54,563	33·19
" V ...	512	0·28	462	0·30	884	0·47	266	0·14	11,742	7·14
Total ...	186,302	...	150,418	...	190,620	...	190,802	...	164,385	...

The differences between the percentages of the year and those of previous years are inconsiderable and call for no remark.

149. The statement below compares the areas of the principal crops for five years :—

Crops.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Acres.	Acres.	Acres.	Acres.	Acres.
Rice	13,947	11,055	15,726	12,284	12,976
Indigo	15,262	14,205	24,770	17,317	10,815
Cotton	32,786	28,713	26,295	32,492	30,103
Millet	52,273	31,227	42,753	49,591	44,738
Wheat	46,800	37,703	44,746	57,759	41,451

The increase over last year in the area of the principal crops follows that of the total area irrigated and is due, as mentioned previously, to a somewhat better supply in the canals, especially at the commencement and end of the season and during the month of August and to the well-distributed rain-fall.

150. The area of double-cropped land was 1549 acres against 2335 in the previous year.

151. The following table shows the cost of the maintenance per mile of the canals during a period of five years :—

	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
Canals ... { Rupees ... / Miles ...	$\frac{1,03,571}{651}=159{\cdot}10$	$\frac{1,52,398}{651}=234{\cdot}10$	$\frac{89,375}{651}=137{\cdot}30$	$\frac{91,888}{618}=148{\cdot}6?$	$\frac{1,00,221}{618}=162{\cdot}17$

The smaller expenditure on silt-clearance explains the decrease in the cost of maintenance.

152. The measurements were as before conducted by the District Patwáris. The rates per acre for the last ten years have been :—

	Rs.
1884-85	1·56
1883-84	1·94
1882-83	1·77
1881-82	1·63
1880-81	2·48
1879-80	2·62
1878-79	2·23
1877-78	2·18
1876-77	2·49
1875-76	2·54

The decrease in the rate results from a larger area having been irrigated in both the kharif and rabbi crops.

153. The cost of preparing the revenue papers was Rs. 0·19 against Rs. 0·18 in last year.

154. The rain-fall for the last five years is given below :—

Names of Stations.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Inches.	Inches.	Inches.	Inches.	Inches.
Sanghar	7·50	3·75	6·70	2·30	4·20
Dera Ghâzi Khan	10·37	1·97	12·25	7·10	5·50
Râjanpur	6·40	1·30	12·41	1·90	1·70

The rain-fall in 1882-83 was considered exceptionally heavy, but that in this year has exceeded it in one observing station.

155. The following table shows the monthly rain-fall at the different stations in the Dera Ghâzi Khan District :—

Months.	Sanghar.	Dera Ghâzi Khan.	Jâmpur.	Râjanpur.
Kharif Crop.	Inches.	Inches.	Inches.	Inches.
April 1884	...	0·16	1·1	...
May "	...	0·08	0·7	1·5
June "	1·2	0·13	0·8	0·4
July "	1·8	2·83	4 0	1·6
August "	1·2	2·57	1·8	1·6
September "	1·7	3·16	1·3	1·0
Total ...	5·9	8 93	9·7	6·1
Rabbi Crop.				
October 1884	...	...	...	...
November "	...	...	...	...
December "	...	...	...	...
January 1885	1·6	1·39	0·3	0·3
February "	...	...	...	...
March "	...	0·05	...	...
Total ...	1·6	1·44	0·3	0·3
Grand Total ...	7·50	10·37	10·00	6·40
Do. 1883-84 ...	3·75	1·97	1·50	1·30
Difference	+ 3·75	+ 8·40	+ 8·50	+ 5·10

156. The table below gives the areas irrigated and the estimated value of crops grown; the latter amounted to Rs. 56,15,629, against Rs. 51,64,990 in previous year :—

Name of Crop.	Areas irrigated. Flow.	Areas irrigated. Lift.	Total.	Produce per acre.			Estimated produce			Average rate per rupee.			Total value of produce.		
	Acres.	Acres.	Acres.	Mds.	S.	C.	Mds.	S.	C.	Mds.	S.	C	Rs.	A.	P.
KHARIF.															
Class I—															
Sugar-cane ...	22·94	·73	23·67	80	0	0	1,893	24	0	1	0	0	1,893	9	7
Class II—															
Miscellaneous—Gardens ...	360·37	49·70	410·07	30	0	0	12,302	4	0	0	10	0	49,208	6	5
Cereals— Rice ...	13,890·64	56 83	13,947·47	12	0	0	1,67,369	25	10	0	7	8	8,92,638	1	4
Total II ...	14,251·01	106·53	14,357·54	...	...	...	...	...	...	...	...	...	9,41,846	7	9
Class III—															
Fibres— Cotton ...	29,522·28	3,263·48	32,785·76	2	0	0	65,571	20	13	0	2	7	10,76,045	7	4
Dyes, drugs and spices. Indigo ...	14,976·23	286·11	15,262·34	0	20	0	7,631	6	13	0	0	10	4,88,394	14	4
Dyes, drugs and spices. Mehndi ...	25·67	0·07	25·74	1	0	0	25	29	10	0	13	0	79	3	2
Dyes, drugs and spices. Chillies ...	64·70	25·16	89·86	4	0	0	359	17	10	0	4	8	3,195	0	5
Oil-seeds— Til ...	1,312·66	118·14	1,430·80	5	0	0	7,154	0	0	0	8	0	35,770	0	0
Miscellaneous—Vegetables ...	132·84	25·76	158·60	30	0	0	4,758	0	0	2	0	0	2,379	0	0
Total III ...	46,034·38	3,718·72	49,753·10	...	...	...	...	...	...	...	...	...	16,05,863	9	3
Class IV—															
Cereals ... Jowár ...	36,127·47	8,900·32	45,027 79	10	0	0	4,50,277	36	0	0	28	0	6,43,254	2	3
Cereals ... Bájra ...	6,057·09	1,188·08	7,245·17	10	0	0	72,451	28	0	0	25	0	1,15,922	11	6
Cereals ... Sawánk ...	831·52	129·48	961·00	10	0	0	9,610	0	0	0	36	0	10,677	12	5
Cereals ... Chína, &c. ...	57 63	13·51	71·14	5	0	0	355	28	0	0	29	0	490	10	0
Pulses ... Moth ...	188·11	3·06	191·17	6	0	0	1,147	0	13	0	15	8	2,960	0	10
Pulses ... Mung ...	8·02	...	8·02	6	0	0	48	4	13	0	11	8	167	6	0
Fodder— Grass ..	6,884·33	314·08	7,198·41	100	0	0	7,19,841	0	0	2	0	0	3,59,920	8	0
Nábúd (Barren) ...	10,361·65	439·96	10,801·61	...	...	...	...	...	...	...	...	...	...	...	...
Total IV ...	60,515·82	10,988·49	71,504·31	...	...	...	...	...	...	...	...	...	11,33,393	3	0
TOTAL KHARIF ...	120,824 15	14,814·47	1,35,638·62	...	...	...	...	...	...	...	...	...	36,82,996	13	7
RABBI.															
Class III—															
Cereals— Wheat ...	43.949·24	2,851·09	46,800·33	16	0	0	7,48,805	11	3	0	16	8	18,15,285	8	5
Oil-seeds— Sarson ...	2,091·50	88·78	2,180·28	8	0	0	17,442	9	10	0	12	8	55,815	2	9
Drugs, and spices ... Poppy ...	8·42	...	8·42	5	0	0	42	4	0	0	1	0	1,684	0	0
Drugs, and spices ... Tobacco ...	200·33	33·12	233·45	10	0	0	2,334	20	0	0	5	8	16,976	5	9
Miscellaneous—Turnips ...	686·06	242 06	928·12	50	0	0	46,406	0	0	2	0	0	23,203	0	0
Total III ...	46,935·55	3,215·05	50,150·60	...	...	...	...	...	...	...	...	...	19,12,964	0	11
Class V—															
Pulses ... Gram ...	432·43	4·29	436 72	20	0	0	8,734	16	0	0	20	0	17,468	12	7
Pulses ... Peas ...	75·52	0·09	75·61	20	0	0	1,512	8	0	0	27	8	2,199	9	0
Total V ...	507·95	4·38	512·33	...	...	...	...	...	...	...	...	...	19,668	5	7
TOTAL RABBI ...	47,443 50	3,219·43	50,662·93	...	...	...	...	...	...	...	...	...	19,32,632	6	6
Land inundated by waste water	3,699·88	...	3,699·88	...	...	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL ...	171,967·53	18,033·90	190,001·43	...	...	...	...	...	...	...	...	...	56,15,629	4	1

Muzaffagrarh Inundation Canals.

157. There is no Capital expenditure on these Series of Canals.

158. The Revenue Account is as follows :—

Expenditure.		Rs.	Receipts.	Rs.
Extensions and Improvements ...		16,426	Miscellaneous ...	62
Maintenance and Repairs ...		24,822	Contributions from Zar-i-nágha ...	36,913
Compensation ...		224	Statute labor ...	92,150
Establishment—	Rs.		Total ...	1,29,125
Direction ...	9,055			
Executive ...	23,486			
Revenue ...	14,496	47,037		
Tools and Plant—				
Direction ...	48			
Executive ...	1,313	1,361		
Miscellaneous Advances ...		−208		
Total ...		89,662		
Statute labor ...		92,150		
Total ...		1,81,812		
Indirect Charges.				
Leave and Pension allowances ...		6,585	Share of Land Revenue ...	2,40,660
Total Working Expenses ...		1,88,397		
Balance Profit ...		1,81,388		
Grand Total ...		3,69,785	Grand Total ...	3,69,785

159. The profit during the year was *Rs. 1,81,388 against Rs. 1,84,599,* exclusive of adjustments, in the previous year. The decrease was due to the large expenditure incurred under the head of Extensions and Improvements as detailed below.

160. The expenditure from the Zar-i-nágha Fund on Extensions and Improvements was Rs. 15,231. Of this Rs. 4,717 were spent on the construction of the Langar Sarai Bunds, Rs. 1,112 on petty items and Rs. 9,402 on regulators; but in this last amount Rs. 6,537 has been included for the manufacture of bricks which will be adjusted subsequently. On Repair Rs. 21,458 was spent from the same source against Rs. 24,691 in the previous year. The following were some of the principal works carried out and their cost :—

	Rs.
Widening the Ganesh Canal ...	2,681
Cutting-off a loop on the Ganesh Canal ...	534
Building a new head to the Dín Muhammad Canal ...	6,306
Repairs to flood embankments ...	2,422

Considerable sums were also expended, as reported in the previous year, on work on flood embankments formerly performed by the irrigators without payment. Rupees 224 was paid as compensation for crops destroyed.

161. The expenditure on Extensions and Improvements from Imperial Funds was Rs. 1,195 for Surveys and Levels undertaken in connection with these Canals, and Rs. 3,364 for Repairs, being the cost of Establishment employed for the supervision of the statute labor.

162. The Establishment charges were Rs. 641 in excess of those of the previous year, a Deputy Collector having been employed on higher pay.

163. The expenditure on Tools and Plant was Rs. 1,361 against Rs. 316 in the previous year; the increase was due to the purchase of office furniture, treasure-chests and a hand pump.

164. The detailed cost of the Establishment for the last five years is given below :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs	Rs	Rs	Rs	Rs
ENGINEERING.					
Direction	9,055	11,034	12,899	9,287	8,430
Executive	23,486	22,880	19,170	18,890	17,332
Total ...	32,541	33,914	32,069	28,177	25,762
REVENUE.					
Collection and Police	14,496	12,482	12,351	13,552	10,869
GRAND TOTAL ...	47,037	46,396	44,420	41,729	36,631
	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated	258,035	226,499	259,385	248,593	239,906
	Rs.	Rs.	Rs.	Rs.	Rs.
Rate per acre	0·18	0·20	0·17	0·17	0·15

The reduction under the head of Direction is due to the apportioning of the charge for the pay of the Chief Engineer and Accounts Branch. The increase in the cost of the Executive Establishment arose from the employment of an Accountant and entertainment of an additional number of lower subordinates. The causes of increase in the cost of the Revenue Establishment has been explained above.

165. The following table shows the working expenses for five years :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs	Rs	Rs	Rs	Rs
I A.—Extensions and Improvements...	16,426	2,913	...	...	...
I B.—Maintenance and Repairs ...	24,822	28,848	10,832	22,685	320
I C.—Compensation ...	224	...	...	...	...
II.—Establishment ...	47,037	46,396	44,420	41,729	36,631
III.—Tools and Plant ...	1,361	316	1,094	488	16
V.—Profit and Loss ...	...	...	4	...	...
Miscellaneous Advances ...	−208	208	...	...	...
Statute labor ...	92,150	92,150	92,150	92,150	92,150
Total ...	1,81,812	1,70,831	1,48,500	1,57,052	1,29,117
Book Charges ...	6,585	6,495	5,159	10,712	6,103
Total Working Expenses ...	1,88,397	1,77,326	1,53,659	1,67,764	1,35,220
	Acres.	Acres.	Acres.	Acres.	Acres.
Area irrigated ...	258,035	226,499	259,385	248,593	239,906
	Rs.	Rs.	Rs.	Rs.	Rs.
Rate per acre excluding Book charges	0·70	0·75	0·57	0·63	0 54
Ditto including ditto	0·75	0·78	0·59	0·67	0·56

The decreased cost per acre was due to the increase in the area irrigated.

166. The following table shows the amount of the Revenue during the last five years :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rs.	Rs.
COLLECTIONS.					
Miscellaneous	62	59	47	196	25
Contributions from Zar-i-nágha	36,913	27,604	7,421	15,902	...
Statute labor	92,150	92,150	92,150	92,150	92,150
Total	1,29,125	1,19,813	99,618	1,08,248	92,175
Enhanced Land Revenue	2,40,660	3,58,512	1,20,736	4,67,529	...
GRAND TOTAL ...	3,69,785	*4,78,325	2,20,354	5,75,777	92,175
ASSESSMENTS.					
Miscellaneous	62	59	47	196	25
Contributions from Zar-i-nágha	36,913	27,604	7,421	15,902	...
Statute labor	92,150	92,150	92,150	92,150	92,150
Total ...	1,29,125	1,19,813	99,618	1,08,248	92,175
Enhanced Land Revenue...	2,40,660	2,42,112	2,37,136	2,38,483	2,29,046
GRAND TOTAL ...	3,69,785	3,61,925	3,36,754	3,46,731	3,21,221

* This includes Rs. 1,16,400 short credit of land revenue of the previous year.

167. The miscellaneous revenue for the last five years is detailed below :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rs.	Rs.
VI.—Receipts from other Canal Produce ...	...	...	...	134	25
XI.—Miscellaneous and other Receipts ...	62	59	47	62	...
Total ...	62	59	47	196	25

168. The Zar-i-nágha Account is as follows :—

		Rs.
Balance on 1st April 1884 ...	... ...	47,514
Realized during the year ...	... ...	14,914
	Total ...	62,428
Deduct Expenditure during the year ...	... ...	36,913
Balance on 1st April 1885	... ...	25,515

The realizations on account of fines amounted to Rs. 14,914, a decrease of Rs. 7,919 on those of the previous year, and the balance at the end of the year was only Rs. 25,515, showing a falling-off of Rs. 21,999. It is necessary now to carefully administer this fund till the balances reach the sum of at least Rs. 50,000 in order to be ready to supply any extraordinary demands which may arise for new heads or works. The falling-off in this fund is said to be due to the work during the year having been more on the branches than on the heads, and therefore nearer the homes of the majority of the irrigators who attended in consequence with greater regularity. The refusal of the Deputy Commissioner to allow the Chikar Chhers to be called out as previously for the watch and ward and repair of embankments has added a serious item to the expenditure, as the cost of this work has now to be met from the Zar-i-nágha Fund, whilst the receipts from fines are seriously falling off—*vide* table at paragraph 170.

169. The following table shows the attendance of statute labor for the last two years :—

Particulars.			1884-85.			1883-84.			Difference.	
			Indus.	Chenab.	Total.	Indus.	Chenab.	Total.	More.	Less.
Called out ...		Canal	329,562	68,582	398,144	338,534⅓	75,110	413,644	...	15,500
		Bunds	8,146	3,611	11,757	13,489	9,813	23,302	...	11,545
		Total ...	337,708	72,193	409,901	352,023	84,923	436,946	...	27,045
Present.	Canal ...	Regular Chhers ...	310,227⅔	57,216	367,443⅓	307,388⅓	57,201	364,589½	2,854	...
		Paid Chhers ...	2,232	3,822	6,054	10,719	9,407	20,126	...	14,072
		Total ...	312,459⅔	61,038	373,497⅓	318,107⅓	66,608	384,715½	...	11,218
	Bunds ...	Regular Chhers ...	...	...	...	...	...	...	...	...
		Paid Chhers ...	7,320	3,442	10,762	10,441	9,060	19,501	...	8,739
		Total ...	7,320	3,442	10,762	10,441	9,060	19,501	..	8,739
		Grand Total Present ...	319,779⅔	64,480	384,259⅓	328,548⅓	75,668	404,216½	...	19,957
Remitted.	Canal ...	Máfi	175	...	175	1,010	10	1,020	...	845
		Panchâyat ...	7,548	3,027	10,575	5,877	2,377	8,254	2,321	...
		Total ...	7,723	3,027	10,750	6,887	2,387	9,274	1,476	...
	Bunds ...	Máfi	...	...	...	...	...	...	...	...
		Panchâyat ...	...	...	...	...	...	...	...	...
		Total ...	...	...	...	...	...	...	...	...
		Grand Total Remitted ...	7,723	3,027	10,750	6,887	2,387	9,274	1,476	...
Total Present and Remitted ...			327,502⅔	67,507	395,009⅓	335,435⅓	78,055	413,490⅔	...	18,481
Absent		Canals ...	9,379⅓	4,517	13,896⅓	13,539⅓	6,115	19,654	...	5,758
		Bunds ...	826	169	995	3,048	753	3,801	...	2,806
		Total Absent ...	10,205⅓	4,686	14,891⅓	16,587⅓	6,868	23,455⅓	...	8,564

There was a decrease of 27,045 in the number of the Chhers called out during the year as compared with those in the previous year, of which 15,500 were for the Canal clearances, and 11,545 for watch and ward and repairs of Canal protective and supply bunds.

There was an increase of 2,854 in the unpaid Chhers, and a decrease of 22,811 in the paid Chhers. Of these latter 14,072 were employed on Canal clearances, and 8,739 on bunds. This decrease was due to a smaller number being required both for clearance and for watching and repairing Canal bunds.

The number of regular Chhers remitted was 10,750 against 9,274 in the previous year. The decrease of 8,564 in the absentees was the result partly of a smaller number having been called out and partly of the better attendance as explained previously.

170. The following table compares the percentage of laborers present and absent for the last five years and the fines levied on absentees :—

Years.	Canals.				Bunds.			Total fines in Rupees.
	Present.	Remitted.	Absent.	Fines in Rupees.	Present including remitted.	Absent.	Fines in Rupees.	
1884-85 ...	93·81	2·70	3·49	6,948	91·54	8·46	498	7,446
1883-84 ...	93·01	2·24	4·75	9,827	83·69	16·31	1,901	11,728
1882-83 ...	88·66	3·27	8·07	17,222	76·66	23·34	5,250	22,472
1881-82 ...	90 08	3·12	6·80	13,371	80·75	19·25	7,747	21,118
1880-81 ...	88·94	3·05	8·01	15,696	74·76	25·24	7,182	22,878

The percentage of attendance of Canal Chhers was 3·64 in excess of the average of the four preceding years, and the percentages of remissions and absentees 0·22 and 3·42 respectively, less than the average. In comparing the last two years it will be seen that the percentages of attendance and remissions were 0·80 and 0·46 respectively, more, while the absentees shows a decrease of 1·26 per cent.

The number of absentees of Chhers on Bunds fell 12·57 per cent. below the average during the four preceding years.

171. The areas under kharíf and rabbi irrigation and the percentage of each crop for a period of five years is given in the following table :—

Crops.	1884-85.		1883-84.		1882-83.		1881-82.		1880-81.	
	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.
	Acres.		*Acres.*		*Acres.*		*Acres.*		*Acres.*	
Kharíf ...	136,845	53·03	116,646	51·50	135,148	52·10	134,350	54·04	123,380	51·43
Rabbi ...	121,190	46·97	109,853	48·50	124,237	47·90	114,243	45·96	116,526	48·57
Total ...	258,035	...	226,499	...	259,385	...	248,593	...	239,906	...

The area irrigated was 31,536 acres in excess of that of the previous year which was an unfavorable one, and 1,350 acres less than that of the year 1882-83, which was a favorable one for irrigation both as regards rain-fall and river level. It as also 14,439 acres above the average of the last four years.

172. The following table shows the areas irrigated from each Canal during the last five years :—

Names of Canals.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.	Difference.
Indus Series.	*Acres.*	*Acres.*	*Acres.*	*Acres.*	*Acres.*	
Gharku group ...	8,196	7,237	9,414	9,426	No detail available.	
Magasson ...	28,530	26,384	29,316	30,261		
Maggi ...	59,241	52,253	57,619	55,798		
Adil and Chitta ...	12,518	10,493	11,687	11,402		
Ghattu group ...	28,817	21,887	28,537	23,627		
Puran ...	40,150	36,967	40,764	36,658		
Suráb ...	12,029	11,210	11,117	11,720		
Sulemán and Khán ...	14,744	15,287	13,214	14,676		
Kambír ...	...	...	535	614		
Total ...	204,225	181,718	202,203	194,182	...	
Chenab Series.						
Karm ...	7,944	5,965	9,417	7,355	No detail available.	
Ganesh ...	7,243	5,479	7,709	6,805		
Taliri ...	19,372	16,657	20,742	20,135		
Ghazanfar ...	1,845	1,426	1,998	1,762		
Jhangáwar ...	6,472	5,309	7,040	6,464		
Ali and Khali ...	10,934	9,935	10,090	11,248		
Rohillánwála drainage ...	...	10	186	642		
Total ...	53,810	44,781	57,182	54,411	...	
GRAND TOTAL ...	258,035	226,499	259,385	248,593	239,906	*Acres.*
Average ...	...	243,596.				+ 14,439

The increase in the area irrigated was due to the supply in all the canals having been both seasonable and sufficient and to a better rain-fall which allowed the supply to go further.

173. The proportion of Flow to Lift irrigation in the last three years is given below :—

Particulars.		1884-85.		1883-84.		1882-83.	
		Kharíf.	Rabbi.	Kharíf.	Rabbi.	Kharíf.	Rabbi.
Flow ...	Area Acres.	129,204	115,903	107,874	101,972	126,661	117,587
	Percentage ...	94·41	95·63	92·48	92·83	93·72	94·65
Lift ...	Area Acres.	7,641	5,287	8,772	7,881	8,487	6,650
	Percentage ...	5·59	4·37	7·52	7·17	6·28	5·35
Total ...		136,845	121,190	116,646	109,853	135,148	124,237
		258,035.		226,499		259,385	

The better sustained supply, accounts for the improvement in the percentage during the year under review.

174. The areas and percentages of each class of crop are given below for the last five years :—

Class.	1884-85. Area.	1884-85. Per cent.	1883-84. Area.	1883-84. Per cent.	1882-83. Area.	1882-83. Per cent.	1881-82. Area.	1881-82. Per cent.	1880-81. Area.	1880-81. Per cent.
	Acres.		Acres		Acres.		Acres.		Acres.	
Class I. ...	4,571	1·77	5,297	2·34	6,411	2·47	5,163	2·08	4,618	1·93
" II. ...	32,758	12·70	32,025	14·14	28,737	11·08	35,931	14·45	37,344	15·57
" III. ...	145,818	56·51	126,244	55·74	150,294	57·94	135,881	54·66	121,258	50·54
" IV. ...	74,888	29·02	62,933	27·78	73,943	28·51	71,618	28·81	76,686	31·96
Total ...	258,035	...	226,499	...	259,385	...	248,593	...	239,906	...

Some falling off took place in the area under crops class I. In class II (rice) and class IV (millets) there was an increase in the area irrigated accompanied by a large increase in class III due to a marked extension in the irrigation of cotton and indigo, and a fair increase in that of wheat.

175. The statement below compares the area of the principal crops during a period of five years :—

Crops.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Acres.	Acres.	Acres.	Acres.	Acres.
Sugar-cane	4,571	5,297	6,411	5,163	4,618
Rice	32,242	31,526	28,260	35,491	37,128
Cotton	23,396	18,128	17,754	23,741	25,638
Indigo	39,879	30,131	49,740	34,603	16,072
Millets	24,588	22,053	24,443	25,389	27,850
Wheat	69,606	66,684	70,863	66,562	69,449

The increase in the several crops, except sugar-cane under which there was a decrease, is due to a better supply in the Canals.

176. The value of labor supplied was—

	Rs.	Rs.
Indus Canals	77,557	
Chenab Canals	14,304	
		91,861
Zar-i-nágha or fines on absentees		7,446
Share of Land Revenue		2,40,660
Total cost to the cultivators ...		3,39,967

The cost to the cultivators was therefore $\frac{\text{Rs } 3,39,967}{\text{Acres } 258,035} = 1{\cdot}32$ per acre against Rs. 1·52 per acre in the previous year, the decrease being due to the larger area irrigated.

177. The following table shows the rain-fall at the principal stations in the District :—

Months.	Muzaffargarh.	Alipur.	Sanawan.
	Inches.	Inches.	Inches.
Kharif Crop.			
April 1884	...	...	...
May "	0·3	0·8	...
June "	1·9	1·7	2·0
July "	1·9	1·3	1·8
August "	1·1	0·8	2·8
September "	1·2	1·6	2·2
Total ...	6·4	6·2	8 8
Rabbi Crop.			
October 1884	...	...	...
November "	...	...	...
December "	...	...	...
January 1885	1·1	0 1	1·0
February "	...	...	...
March "	0·6	...	...
Total ...	1·7	0·1	1·0
Grand Total ...	8·1	6·3	9·8
Do. 1883-84 ...	4·3	2·3	2·8
Difference ...	+ 3·8	+ 4·0	+ 7.0

178. The following table shows the area irrigated and the value of crops grown, which amounted to Rs. 39,73,021 against Rs. 39,94,686, the value recorded in the previous year.

Name of Crops.	Area irrigated.			Produce per acre.			Estimated produce.			Average rate per Rupee.			Total value of produce.		
	Flow.	Lift.	Total.												
	Acres.	Acres.	Acres	Mds.	S	C.	Mds.	S.	C.	Mds.	S	C.	Rs.	A.	P.
Kharif.															
Class I.— Sugar-cane ...	4,119	452	4,571	20	13	5	92,941	11	7	0	15	0	2,85,973	3	0
Total ...	4,119	452	4,571	20	13	5	...	...	...	...	...	...	2,85,973	3	0
Class II.— Rice ...	32,161	81	32,242	0	7	6	230,530	12	0	0	16	0	5,76,326	14	0
Gardens ...	128	6	134	Rs. 200	pe	r	acre	...	...	...	...	...	26,800	0	0
Total ...	32,289	87	32,376	...	...	...	...	...	...	...	..	...	6,03,126	14	0
Class III.— Fibres ... Cotton ...	21,467	1,929	23,396	0	36	4	21,202	25	0	0	3	4	2,60,955	6	2
Fibres ... Flax ...	5	1	6	2	0	0	12	0	0	0	8	0	60	0	0
Dyes, Drugs and spices — Indigo ...	37,698	2,181	39,879	0	13	12	13,708	16	4	0	0	11	7,97,580	0	0
Dyes, Drugs and spices — Chillies ...	160	24	184	5	0	0	920	0	0	0	8	0	4,600	0	0
Oil-seeds—Til ...	1,983	131	2,114	4	0	0	8,456	0	0	0	11	0	30,749	1	5
Miscellaneous—Vegetables ...	135	31	166	40	0	0	6,640	0	0	1	20	0	4,426	10	8
Total ...	61,448	4,297	65,745	...	...	...	...	.	...	..	...	...	10,98,371	2	3
Class IV.— Cereals — Jowár (great millet) ...	14,529	1,331	15,860	4	20	0	71,370	0	0	0	25	0	1,14,192	0	0
Cereals — Bajra (spike „) ...	7,791	937	8,728	6	34	0	59,786	32	0	0	25	0	95,658	14	1
Cereals — Kangni (Italian „) ...	56	10	66	4	27	0	308	22	0	0	23	0	536	9	9
Cereals — Maize ...	1	1	2	20	0	0	40	0	0	...	...	...	100	0	0
Cereals — Sawánk ...	1,146	24	1,170	3	0	0	3,510	0	0	0	26	0	5,400	0	0
Cereals — Chuia ...	151	29	180	8	15	0	1,507	0	0	0	25	0	2,412	0	0
Pulses — Másh ...	108	12	120	4	20	0	540	0	0	0	16	0	1,350	0	0
Pulses — Moth ..	7,339	430	7,769	1	20	0	11,653	20	0	0	25	0	18,645	9	7
Pulses — Máng ...	29	12	41	4	0	0	164	0	0	0	20	0	328	0	0
Miscellaneous ...	198	19	217	6	0	0	1,302	20	0	0	32	0	1,627	8	0
Total ...	31,348	2,805	34,153	...	...	...	...	...	...	...	...	...	2,40,250	9	5
Total Kharif ...	129,204	7,641	136,845	...	..	...	..	...	...	...	...	..	22,27,721	[illegible]	[illegible]
Rabbi.															
Class II.— Gardens ...	342	40	382	200	pe	r	acre	...	...	...	...	...	76,400	0	0
Class III.— Cereals — Wheat ...	66,493	3,113	69,606	10	28	12	746,089	12	8	0	23	0	12,97,546	10	1
Cereals — Barley ...	1,191	20	1,211	11	26	12	14,130	34	4	0	27	0	20,934	9	8
Cereals — China ...	46	4	50	8	15	0	418	30	0	0	25	0	670	0	0
Drugs ... Tobacco ...	67	12	79	11	26	12	921	33	4	0	13	0	9,836	5	2
Drugs ... Poppy ...	2	...	2	4	0	0	8	0	0	0	1	0	320	0	0
Oil-seeds—Sarson ...	2	1	3	6	9	12	18	29	4	0	14	0	53	8	3
Miscellaneous. — Turnips ...	6,391	642	7,033	6	9	12	43,912	11	12	0	14	0	1,25,463	11	2
Miscellaneous. — Carrots ...	9	3	12	5	0	0	60	0	0	0	10	0	240	0	0
Miscellaneous. — Methra ...	285	18	303	2	20	0	757	20	0	0	26	0	1,165	6	0
Miscellaneous. — Ussun ...	1,636	22	1,658	6	9	12	10,352	5	8	0	18	0	23,004	12	0
Miscellaneous. — Vegetables ...	111	5	116	50	0	0	5,800	0	0	3	0	0	1,933	5	4
Total ...	76,233	3,840	80,073	...	...	...	...	...	...	...	...	...	14,74,168	3	8
Class IV.—															4
Pulses ... Gram ...	4,886	35	4,921	7	20	0	36,907	20	0	0	26	0	56,780	12	1
Pulses ... Masúr ...	902	3	9(5	5	20	0	4,977	20	0	0	26	0	7,657	11	4
Pulses ... Matar ...	17,124	58	17,182	7	20	0	128,865	0	0	1	0	0	1,28,865	0	..
Fallow land for wheat ...	16,376	1,309	17,685	...	...	...	...	...	.	...	.	...	...	..	0
Miscellaneous ...	40	2	42	8	20	0	357	0	0	0	10	0	1,428	0	0
Total ...	39,328	1,407	40,735	...	...	...	...	...		...	...	...	1,94,731	7	5
Total Rabbi ...	115,903	5,287	121,190	...	..	...	...	.	...	...	...	...	17,45,299	11	1
Grand Total ...	245,107	12,928	258,035	...	...	...	...	...	...	...	...	...	39,73,021	7	9

Shahpur Inundation Canals.

179. There was no addition to the Capital Account during the year which therefore remains at the same amount as in the previous year *viz.*, Rs. 40,739.

180. The Revenue Account was as follows :—

Expenditure.		Rs.	Receipts.	Rs.
Maintenance and Repairs ...		9,004	Water-rate, from Irrigation ...	16,332
Establishment—			Miscellaneous	184
irection ...	437			
Revenue, Fees to Lambardárs and Patwáris ...	767	1,204		
Tools and Plant ...		2		
Refunds of Revenue ...		470		
Total		10,680		
Indirect Charges— Leave and Pension Allowances		169		
Total Working Expenses ...		10,849		
Balance Profit		5,667		
Grand Total ...		16,516	Grand Total ...	16,516

The balance of profit was Rs. 5,667, or 13·91 per cent. on the Capital invested. The balance at the credit of the canals at the end of the year was Rs. 76,166.

181. The working expenses for the last five years are given below :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Rs.	Rs.	Rs.	Rs.	Rs.
I B. Maintenance and repairs	9,004	8,984	8,800	9,057	6,914
II. Establishment ...	1,204	2,143	658	499	—67
III. Tools and Plant ...	2	8	...	4	...
V. Refunds of Revenue ...	470	...	...	...	...
Total ...	10,680	11,135	9,458	9,560	6,847
Book charges	169	300	72	95	...
Grand Total ...	10,849	11,435	9,530	9,655	6,847

182. The following table shows the result of the operations during the last five years according to the collections and assessments :—

Details.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
COLLECTIONS.	Rs.	Rs.	Rs.	Rs.	Rs.
Water-rates from Irrigation ...	16,332	30,702	12,249	25,003	7,597
Miscellaneous	184	...	...	...	...
Total ...	16,516	30,702	12,249	25,003	7,597
ASSESSMENTS.					
Water-rates from Irrigation ...	29,337	18,081	26,809	21,796	18,436
Miscellaneous	184	...	...	..	...
Total ...	29,521	18,081	26,809	21,796	18,436
Capital invested	40,739	40,739	40,739	40,739	40,739
Working expenses ...	10,849	11,435	9,530	9,655	6,847
PROFIT ON CAPITAL.					
Collections	5,667	19,267	2,719	15,348	750
" Per cent. ...	13·91	47·29	6·70	37·67	1·84
Assessments	18,672	6,646	17,279	12,141	11,589
" Per cent. ...	45·83	16·31	42·41	29·80	28·4[illegible]

The collections in the year under review compare unfavourably with those of the previous year, as the figures for that year include a large sum on account of arrears of the year 1882-83. The increase in assessments is owing to the zamíndárs having irrigated their lands in time for the kharíf crop which was not the case last year.

183. The balance of water-rate unrealized was Rs. 5,125.

184. The area and percentage of each crop is given below :—

CROPS.	1884-85.		1883-84		1882-83.		1881-82.		1880-81.	
	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.
	Acres.		Acres.		Acres.		Acres.		Acres.	
Kharíf ..	9,441	65	2,407	44	7,826	62	7,138	62	5,706	62
Rabbi ...	5,112	35	3,078	56	4,806	38	4,385	38	3,429	38
Total ..	14,553	...	5,485	...	12.632	...	11,523	...	9.135	...

The increase in the area irrigated during the kharíf has been explained in paragraph 182.

185. The percentage of flow to lift irrigation is given below for the last two years :—

Particulars.			1884-85.	1883-84.
Flow ...	Area	Acres.	12,006	5,250
	Percentage	...	82	96
Lift ...	Area	Acres.	2,547	235
	Percentage	...	18	4
	Total ...	...	14,553	5,485

186 The area and percentage of each class of crop are given below for a period of five years :—

Class.	1884-85.		1883-84.		1882-83.		1881-82.		1880-81.	
	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Area.	Percentage.
	Acres.		Acres.		Acres.		Acres.		Acres.	
Class I ...	35	0·2	203	3·8	90	0·7	130	1·1	30	0·3
" II ...	131	0·9	12	0·4	91	0·7	61	0·5	154	1·5
" III ...	9,114	62·6	4,059	73·6	8,514	67·4	7,309	63·5	5,792	63·5
" IV ...	4,286	29 5	1,211	22·2	3,937	31·2	4,020	34·9	3,159	34·7
" V ...	987	6·8	...	...	...	...	...	...	...	...
Total ...	14,553	...	5,485	...	12,632	...	11,523	...	9,135	...

187. The statement below compares the areas under the principal crops during the last five years :—

Crops.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
	Acres.	Acres.	Acres.	Acres.	Acres.
Sugar-cane	35	195	85	130	31
Cotton	5,133	1,157	4,361	3,637	2,498
Wheat	3.405	2,612	3.699	3.426	2,756
Jowár	2,321	716	1,799	1,396	1,584
Bájra	1,225	109	1,199	1,021	1,089
Gram	518	78	411	116	518

188. The average rain-fall for the last five years has been—

1884-85	...	...	12·6 inches.
1883-84	...	...	14·4 "
1882-83	...	...	25·2 "
1881-82	...	...	14·2 "
1880-81	...	...	11·6 "

189. The following table shows the areas irrigated and the value of the crops estimated to amount to Rs. 1,34,168 :—

Crops.	Area irrigated by			Total.	Probable value of the harvest produced.
	Station Canal.	Sahiwál Canal.	Macnabb Canal.		
	Acres.	Acres.	Acres.	Acres.	Rs.
Kharif.					
Class I.—					
Sugar-cane	...	3·9875	30·6375	34·6250	1,750
Class II.—					
Cereals— Rice	0·3750	8·6438	...	9·0188	135
Drugs— Bhang	1·2875	...	...	1·2875	60
Spices— Chillie	0·0625	0·0125	...	0 0750	3
Miscellaneous—Kachaln ...	...	7·2625	...	7·2625	300
Vegetables ...	0·2875	1·6500	...	1·9375	80
Total	2·0125	17·5688	...	19·5813	578
Class III.—					
Fibres— Cotton	4,267·5125	504·7625	360·8938	5,133·1688	61,596
Miscellaneous—Vasma	1·0250	...	...	1·0250	12
Total	4,268·5375	504·7625	360 8938	5,134·1938	61,608
Class IV.—					
Cereals— Makki	2·7313	2·7438	...	5·4751	36
Jowár	1,156·2438	786 7188	378 3875	2,321·3501	20,887
Bájra	301·8750	723·6125	199 4375	1,224·9250	7,350
Sawánk	...	1·1500	...	1·1500	2
China	106·3625	11 9188	...	118·2813	945
Fibres— Hemp	0·3313	0 3063	...	0·6376	24
Pulses— Múng	...	0·9188	..	0·9188	8
Moth	39·9188	32·8250	12 3313	85 0751	850
Oil-seeds—Til (Sesamum) ...	47·9438	10·3125	0 9750	59·2313	1,475
Fodder— Grasses	120·7125	281·4250	33·2063	435·3438	435
Total	1,776·1190	1,851·9315	624·3376	4252·3881	32,012
Total Kharif ...	6,050·6565	2,404 9003	985·2314	9,440·7882	95,948
Rabbi.					
Class II.—					
Drugs— Tobacco ...	0·3188	...	0·2688	0·5876	25
Poppy... ...	3·2563	...	...	3·2563	150
Miscellaneous—Vegetables ...	71·1313	21·3813	9·7000	102·2126	510
Melon	3·6875	1·8750	...	5·5625	77
Total	78·3939	23·2563	9·9688	111·6190	762
Class III.—					
Cereals— Wheat	3,050·5688	83·3813	271·3313	3,805·2814	34,050
Barley	20·5250	1·6438	0·6750	22·8438	115
Oil-seeds—Mustard, &c.... ...	10 8250	...	...	10·8250	66
Pulses— Masúr	18·8375	1·3813	2·0000	22 2188	110
Gram	216·1125	57 0188	245·0375	518·1688	2,590
Total	3,316·8688	143·4252	519·0438	3,979·3378	36,931
Class IV.—					
Cereals—China	30·0313	0·3750	0·8750	31·2813	31
Kangni	0·5188	...	1·8813	2·4001	2
Total	30·5501	0·3750	2·7563	33·6814	33
Class V.—					
Palevar (fallow lands)	726·3000	88·5313	172·8000	987·6313	494
Total	4,152·1128	255·5878	704·5689	5,112·2695	38,220
Grand Total ...	10,202·7693	2,660·4881	1,689·8003	14,553·0577	1,34,168

J. M. HEYWOOD, Lieut.-Colonel, R.E.,
Offg. Chief Engineer, Irrigation Works, Punjab.

Statement showing the Financial Results of Irrigation Works in the Punjab up to and for the Year 1884-85, the Revenue Account being based on the Collections for the Year.

Canals.	Capital Outlay — During 1884-85 — Direct.	Capital Outlay — During 1884-85 — Indirect.	Capital Outlay — During 1884-85 — Total.	Capital Outlay — To end of 1884-85 — Direct.	Capital Outlay — To end of 1884-85 — Indirect.	Capital Outlay — To end of 1884-85 — Total.	Gross Revenue — During 1884-85 — Direct.	Gross Revenue — During 1884-85 — Indirect.	Gross Revenue — During 1884-85 — Total.	Gross Revenue — To end of 1884-85 — Direct.	Gross Revenue — To end of 1884-85 — Indirect.	Gross Revenue — To end of 1884-85 — Total.	Working Expenses — During 1884-85.	Working Expenses — To end of 1884-85	Net Revenue — During 1884-85.	Net Revenue — To end of 1884-85.	Charges for Interest — During 1884-85.	Charges for Interest — To end of 1884-85.	Profit — During 1884-85.	Profit — To end of 1884-85.	Percentage of Profit during Year on Capital Outlay — Excluding interest.	Percentage of Profit during Year on Capital Outlay — Including interest.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Expenditure on Irrigation Works the Capital of which is not charged against Revenue.																						
Works for which Capital and Revenue Accounts are kept.																						
Western Jumna Canal	5,25,153	20,799	5,45,952	96,20,433	4,97,803	1,01,18,236	16,02,372	58,325	16,60,697	3,07,99,255	1,71,25,782	4,79,25,037	4,77,422	1,34,63,060	11,83,275	3,44,61,977	3,74,314	65,50,935	8,08,961	2,79,11,042	11·69	7·99
Bári Doáb Canal	2,43,191	6,269	2,49,460	1,53,25,000	6,22,178	1,59,47,178	10,54,211	(a)2,73,606	13,27,817	1,66,29,227	58,46,829	2,24,76,056	4,99,607	1,11,85,706	8,28,210	1,12,90,356	6,08,136	1,63,97,222	2,20,074	−51,06,866	5·19	1·38
Sirhind Canal ... { Imperial ...	6,15,916	27,446	6,47,362	1,94,14,390	10,40,317	2,04,54,707	32,482	...	32,482	32,706	...	32,706	1,45,210	1,62,701	−1,12,728	−1,29,995	7,64,177	62,71,519	−8,76,905	−64,01,514	−0·55	−4·28
Sirhind Canal ... { Contributions ...	5,13,585	...	5,13,585	1,12,10,392	...	1,12,10,392	6,380	...	6,380	6,449	...	6,449	32,917	33,581	−26,537	−27,132	...	...	−26,537	−27,132	...	...
Total — { Imperial ...	13,88,260	54,514	14,42,774	4,43,59,823	21,60,292	4,65,20,121	26,89,065	3,31,931	30,20,996	4,74,61,188	2,29,72,611	7,04,33,799	11,22,239	2,48,11,461	18,98,757	4,56,22,338	17,46,627	2,92,19,676	1,52,130	1,64,02,662	4·08	0·33
Total — { Contributions ...	5,13,585	...	5,13,585	1,12,10,392	...	1,12,10,392	6,380	...	6,380	6,449	...	6,449	32,917	33,581	−26,537	−27,132	...	...	−26,537	−27,132	...	...
Works for which only Capital Accounts are kept.																						
Chenab Canal	5,06,018	15,151	5,21,169	7,93,340	40,020	8,33,360	...	...	...	...	...	...	...	...	...	...	21,613	27,654	−21,613	−27,654	−2·59	−2·59
Lower Sohág and Pára Canal	1,80,063	4,716	1,84,779	2,70,389	9,472	2,79,861	...	...	...	...	...	...	...	...	...	...	7,214	9,214	−7,214	−9,214	−2·57	−2·57
Sidhnai Canal	2,40,751	6,642	2,47,393	3,37,293	10,791	3,48,084	...	...	...	...	...	...	...	...	...	...	8,677	10,805	−8,677	−10,805	−2·49	−2·49
Total ...	9,26,832	26,509	9,53,341	14,01,022	60,283	14,61,305	...	...	...	...	...	...	...	...	...	...	37,504	47,673	−37,504	−47,673	−2·56	−2·56
Grand Total — { Imperial ...	23,15,092	81,023	23,96,115	4,57,60,845	22,20,581	4,79,81,426	26,89,065	3,31,931	30,20,996	4,74,61,188	2,29,72,611	7,04,33,799	11,22,239	2,48,11,461	18,98,757	4,56,22,338	17,84,131	2,92,67,349	1,14,626	1,63,54,989	3·96	0·24
Grand Total — { Contributions ...	5,13,585	...	5,13,585	1,12,10,392	...	1,12,10,392	6,380	...	6,380	6,449	...	6,449	32,917	33,581	−26,537	−27,132	...	...	−26,537	−27,132	...	...
Irrigation and Navigation Works not classed as productive.																						
Works for which Capital and Revenue Accounts are kept.																						
Upper Sutlej Inundation Canals ...	−1,141	...	−1,141	5,21,103	56,148	5,77,251	17,470	(b) 81,322	698,792	8,70,211	16,17,556	24,87,767	1,16,895	25,39,638	−18,103	−51,871	...	...	−18,103	−51,871	−3·13	−3·13
Lower Sutlej and Chenab Inundation Canals	164	...	164	1,08,574	2,541	1,11,115	3,26,252	3,18,035	2,44,287	41,29,465	65,79,497	1,07,08,962	4,22,662	56,56,243	2,21,625	50,52,719	...	...	2,21,625	50,52,719	199·45	199·45
Indus Inundation Canals	−81	...	−81	6,87,906	19,729	7,07,635	68,291	1,59,728	,28,019	11,49,009	34,20,386	45,69,395	2,52,573	45,41,717	−24,554	27,678	...	...	−24,554	27,678	−3·47	−3·47
Shahpur Inundation Canals	...	...	...	38,868	1,871	40,739	16,516	...	16,516	1,81,005	...	1,81,005	10,849	1,04,839	5,667	76,166	...	...	5,667	76,166	13·91	13·91
Mádhopur Workshops	−3,059	...	−3,059	4,57,175	...	4,57,175	...	...	...	36,584	...	36,584	...	4,40,456	...	−4,12,872	...	...	...	−4,12,872	...	...
Total ...	−4,117	...	−4,117	18,13,626	80,289	18,93,915	4,28,529	5,59,085	9,87,614	63,66,274	1,16,17,439	1,79,83,713	8,02,979	1,32,91,893	1,84,635	46,91,820	...	...	1,84,635	46,91,820	9·74	9·74
Works for which only Capital Accounts are kept. *Under Suspension.*																						
Abdul Rahmán Khán's Canal	...	...	...	35,095	...	35,095	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total Irrigation and Navigation ...	−4,117	...	−4,117	18,48,721	80,289	19,29,010	4,28,529	5,59,085	9,87,614	63,66,274	1,16,17,439	1,79,83,713	8,02,979	1,32,91,893	1,84,635	46,91,820	...	...	1,84,635	46,91,820	9·75	9·75
Famine Relief and Insurance. *Works for which only Capital Accounts are kept.*																						
Swát River Canal	3,14,177	8,400	3,22,577	30,32,021	1,04,962	31,36,983	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grand Total ... { Non-productive Public Works ...	3,10,060	8,400	3,18,460	48,80,742	1,85,251	50,65,993	4,28,529	5,59,085	9,87,614	63,66,274	1,16,17,439	1,79,83,713	8,02,979	1,32,91,893	1,84,635	46,91,820	...	...	1,84,635	46,91,820	3·64	3·64
Grand Total ... { Imperial ...	26,25,152	89,423	27,14,575	5,06,41,587	24,05,832	5,30,47,419	31,17,594	8,91,016	40,08,610	5,38,27,462	3,45,90,050	8,84,17,512	19,25,218	3,81,03,354	20,83,392	5,03,14,158	17,84,131	2,92,67,349	2,99,261	2,10,46,809	3·92	0·56
Grand Total ... { Contributions ...	5,13,585	...	5,13,585	1,12,10,392	...	1,12,10,392	6,380	...	6,380	6,449	...	6,449	32,917	33,581	−26,537	−27,132	...	...	−26,537	−27,132	...	...
Irrigation and Navigation. *Works for which only Revenue Accounts are kept.*																						
Muzaffargarh Inundation Canals ...	...	...	...	...	...	...	1,29,125	2,40,660	3,69·785	5,48,979	11,87,437	17,36,416	1,88,397	8,22,366	1,81,388	9,14,050	...	...	1,81,388	9,14,050	...	...

Note.—		(a) Rs.	(b) Rs.
Amount for the year	... ...	2,73,606	81,322
Adjustment of previous year	... ...	1,960	−13
Total as shown by Examiner, Public Works Accounts	...	2,75,566	81,309

Statement showing the Financial Results of Irrigation Works in the Punjab for and to end of the year 1884-85, the Revenue Account being based on the Assessments of the Year.

Canals.	Capital Outlay. During 1884-85. Direct.	Capital Outlay. During 1884-85. Indirect.	Capital Outlay. During 1884-85. Total.	Capital Outlay. To end of 1884-85. Direct.	Capital Outlay. To end of 1884-85. Indirect.	Capital Outlay. To end of 1884-85. Total.	Gross Assessments. Direct.	Gross Assessments. Indirect.	Gross Assessments. Total.	Working Expenses. Direct.	Working Expenses. Indirect.	Working Expenses. Total.	Net Revenue.	Charges for Interest.	Profit.	Percentage of Profit during the year on Capital Outlay. Excluding Interest.	Percentage of Profit during the year on Capital Outlay. Including Interest.	Area Irrigated.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Acres.
Expenditure on Irrigation Works the Capital of which is not charged against Revenue.																		
Works for which Capital and Revenue Accounts are kept.																		
Western Jumna Canal	5,25,153	20,799	5,45,952	96,20,433	4,97,803	1,01,18,236	10,82,413	58,325	11,40,738	4,41,770	35,652	4,77,422	6,63,316	3,74,314	2,89,002	6·56	2·86	279,20[illegible]
Bári Doáb Canal	2,43,191	6,269	2,49,460	1,53,25,000	6,22,178	1,59,47,178	10,58,458	3,18,930	13,77,388	4,72,895	26,712	4,99,607	8,77,781	6,08,136	2,69,645	5·50	1·69	376,76[illegible]
Sirhind Canal ... Imperial	6,19,916	27,446	6,47,362	1,94,14,390	10,40,317	2,04,54,707	75,240	...	75,240	1,40,223	4,987	1,45,210	−69,970	7,64,177	−8,34,147	−0·34	−4·08	36,10[illegible]
Sirhind Canal ... Contributions	5,13,585	...	5,13,585	1,12,10,392	...	1,12,10,392	...	...	...	32,917	...	32,917	−32,917	...	−32,917	...	...	...
Total ... Imperial ...	13,88,260	54,514	14,42,774	4,43,59,823	21,60,298	4,65,20,121	22,16,111	3,77,255	25,93,366	10,54,888	67,351	11,22,239	14,71,127	17,46,627	−2,75,500	3·16	−0·59	692,07[illegible]
Total ... Contributions ...	5,13,585	...	5,13,585	1,12,10,392	...	1,12,10,392	...	...	...	32,917	...	32,917	−32,917	...	−32,917	...	...	...
Works for which only Capital Accounts are kept.																		
Chenab Canal	5,06,018	15,151	5,21,169	7,93,340	40,020	8,33,360	...	...	...	...	...	...	...	21,613	−21,613	−2·59	−2·59	...
Lower Sohag and Pára Canal	1,80,063	4,716	1,84,779	2,70,389	9,472	2,79,861	...	307	307	...	...	...	307	7,214	−6,907	0.11	−2·47	6[illegible]
Sidhnai Canal	2,40,751	6,642	2,47,393	3,37,293	10,791	3,48,084	...	...	...	...	...	...	...	8,677	−8,677	−2·46	−2·49	...
Total	9,26,832	26,509	9,53,341	14,01,022	60,283	14,61,305	...	307	307	...	...	...	307	37,504	−37,197	0·02	−2·55	6[illegible]
Grand Total Imperial ...	23,15,092	81,023	23,96,115	4,57,60,845	22,20,581	4,79,81,426	22,16,111	3,77,562	25,93,673	10,54,888	67,351	11,22,239	14,71,434	17,84,131	−3,12,697	3·07	−0·65	692,7[illegible]
Grand Total Contributions ...	5,13,585	...	5,13,585	1,12,10,392	...	1,12,10,392	...	...	...	32,917	...	32,917	−32,917	...	−32,917	...	...	...
Irrigation and Navigation Works not classed as productive.																		
Works for which Capital and Revenue Accounts are kept.																		
Upper Sutlej Inundation Canals	−1,141	...	−1,141	5,21,103	56,148	5,77,251	19,752	89,785	1,09,537	1,10,490	6,405	1,16,895	−7,358	...	−7,358	−1·27	−1·27	90,[illegible]
Lower Sutlej and Chenab Inundation Canals ...	164	...	164	1,08,574	2,541	1,11,115	3,26,252	3,18,035	6,44,287	4,12,339	10,323	4,22,662	2,21,625	...	2,21,625	199·45	199·45	372,[illegible]
Indus Inundation Canals	−81	...	−81	6,87,906	19,729	7,07,635	69,953	1,59,728	2,29,681	2,41,919	10,654	2,52,573	−22,892	...	−22,892	−3·23	−3·23	186,[illegible]
Shahpur Inundation Canals	...	...	...	38,868	1,871	40,739	29,521	...	29,521	10,680	169	10,849	18,672	...	18,672	45·83	45·83	14,[illegible]
Mádhopur Workshops	−3,059	...	−3,059	4,57,175	...	4,57,175	...	...	...	...	...	...	...	...	...	...	...	...
Total	−4,117	...	−4,117	18,13,626	80,289	18,93,915	4,45,478	5,67,548	10,13,026	7,75,428	27,551	8,02,979	2,10,047	...	2,10,047	11·09	11·09	663
Works for which only Capital Accounts are kept under Suspension.																		
Abdul Rahmán Khan's Canal	...	...	...	35,095	...	35,095	...	...	...	...	...	...	...	...	...	...	...	...
Total Irrigation and Navigation ...	−4,117	...	−4,117	18,48,721	80,289	19,29,010	4,45,478	5,67,548	10,13,026	7,75,428	27,551	8,02,979	2,10,047	...	2,10,047	10·89	10·89	663
Famine Relief and Insurance.																		
Works for which only Capital Accounts are kept.																		
Swát River Canal	3,14,177	8,400	3,22,577	30,32,021	1,04,962	31,36,983	...	...	...	...	...	...	...	...	...	...	...	...
Grand Total Non-Productive Public Works ...	3,10,060	8,400	3,18,460	48,80,742	1,85,251	50,65,993	4,45,478	5,67,548	10,13,026	7,75,428	27,551	8,02,979	2,10,047	...	2,10,047	4·15	4·15	663,[illegible]
Grand Total... Imperial ...	26,25,152	89,423	27,14,575	5,06,41,587	24,05,832	5,30,47,419	26,61,589	9,45,110	36,06,699	18,30,316	94,902	19,25,218	16,81,481	17,84,131	−1,02,650	3·17	−0·19	1,356[illegible]
Grand Total... Contributions ...	5,13,585	...	5,13,585	1,12,10,392	...	1,12,10,392	...	...	...	32,917	...	32,917	−32,917	...	−32,917	...	...	...
Irrigation and Navigation.																		
Works for which only Revenue Accounts are kept.																		
[illegible]							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	...	[illegible]	...	...	[illegible]

IRRIGATION OPERATIONS FOR 1884-85.

CLASSIFICATION STATEMENT IN ACRES

OF

CROPS IRRIGATED IN EACH CANAL DIVISION.

IRRIGATION OPERATIONS

CLASSIFICATION STATEMENT IN ACRES OF CROPS

No	Crops	Botanical Names	Western Jumna Canal: Karnal Division Flow	Karnal Division Lift	Hansi Division Flow	Hansi Division Lift	Delhi Division Flow	Delhi Division Lift	Total Flow	Total Lift	Bari Doab Canal: 1st Division Flow	1st Division Lift	2nd Division Flow	2nd Division Lift	Total Flow	Total Lift
1	Gardens and orchards...	...	134	17	712	285	2,645	210	3,491	512	366	45	3,685	329	4,051	[illegible]
2	Sugar-cane ...	Saccharum officinarum	1,234	86	7,225	48	40,675	1,324	49,134	1,458	5,116	39	5,905	361	11,021	[illegible]
3	Water-nuts ...	Trapa bispinosa ...	69	...	46	...	181	...	296	...	...	...	...	...	...	[illegible]
4	Cereal grains—Rice ...	Oryza sativa ...	11,852	70	14,259	...	14,978	3	41,089	73	11,454	...	29,548	289	41,002	[illegible]
5	Jowár...	Holcus Sorghum or Sorghum vulgare.	219	49	6,806	410	3,327	59	10,352	518	5,400	103	13,938	2,155	19,338	[illegible]
6	Maize ...	Zea mays ...	81	18	56	67	12	1	149	86	...	...	13,484	1,865	13,484	[illegible]
7	Bájra ...	Penicillaria spicata ...	...	...	51	13	63	...	114	13	...	...	...	...	...	[illegible]
8	Wheat...	Triticum vulgare, Æstivum or Hybernum.	3,527	1,219	43,220	2,949	10,056	612	56,803	4,780	29,370	602	122,283	29,765	151,653	[illegible]
9	Maudwa	...	47	22	3	4	3	...	53	26	...	...	...	...	...	[illegible]
10	Kangni	...	...	...	2	1	9	1	11	2	...	...	25	4	25	[illegible]
11	Barley...	Hordeum hexastichum or cœleste.	109	73	725	116	20	...	854	189	240	1	1,350	339	1,590	[illegible]
12	Oats ...	Avena sativa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	[illegible]
13	China ...	Panicum miliaceum ...	16	...	1	...	...	...	17	...	...	...	47	6	47	[illegible]
14	Miscellaneous.	...	4	...	1,810	73	481	7	2,295	80	573	5	641	63	1,214	[illegible]
15	Pulses—Gram ...	Cicer arietinum ...	28	8	6,066	45	...	...	6,094	53	1,877	11	4,888	425	6,765	[illegible]
16	Urd or Másh	Dolichos pilosus ...	...	...	54	1	115	1	169	2	...	...	...	...	...	[illegible]
17	Moth ...	Phaseolus aconitifolius	...	...	23	...	...	...	23	...	...	...	...	...	...	[illegible]
18	Masúr ...	Ervum lens ...	91	58	685	14	137	5	913	77	73	...	67	3	140	[illegible]
19	Peas ...	Pisum arvense ...	...	...	22	1	...	...	22	1	...	...	...	...	...	[illegible]
20	Miscellaneous	...	...	...	2	...	...	...	2	...	...	...	...	...	...	[illegible]
21	Fodder crops—Lucerne grass.	Medicago Sativa ...	7	...	469	240	30	6	506	246	...	...	...	...	...	[illegible]
22	Country grass.	...	...	...	1	...	89	9	90	9	3,088	15	8,558	4	11,646	[illegible]
23	Chari...	Holcus Sorghum or Sorghum vulgare.	...	...	672	240	44	...	716	240	...	...	...	...	...	[illegible]
24	Miscellaneous	...	3	7	877	50	...	1	880	58	9,766	85	28,518	2,312	38,284	[illegible]
25	Fibres—Cotton ...	Gossypium herbaceum	720	278	34,679	2,789	13,277	948	48,676	4,015	4,937	34	17,625	2,322	22,562	[illegible]
26	Hemp ...	Crotalaria Juncea ...	66	1	148	12	107	3	321	16	112	1	336	30	448	[illegible]
27	Dyes—Indigo ...	Indigofera tinctoria ...	1,058	9	24,887	137	6,756	374	32,701	520	...	...	...	...	...	[illegible]
28	Turmeric ..	Curcuma longa ...	...	...	...	...	...	...	...	...	20	1	...	...	20	[illegible]
29	Safflower ...	Carthamus tinctoria ..	...	...	1	...	1	1	2	1	...	...	...	...	...	[illegible]
30	Miscellaneous	...	...	...	...	...	...	...	...	...	...	...	...	...	...	[illegible]
31	Drugs & spices—Tobacco	Nicotiana tabacum ...	10	20	14	32	29	37	53	89	46	1	223	77	269	[illegible]
32	Opium	Papaver Somniferum...	...	...	...	...	...	...	...	...	...	...	...	...	...	[illegible]
33	Miscellaneous.	...	93	18	1,148	630	278	18	1,519	666	96	4	357	47	453	[illegible]
34	Oil-seeds—Mustard ...	Sinapis campestris ...	2	...	171	14	...	...	173	14	530	...	2,111	376	2,641	[illegible]
35	Linseed ...	Linum usitatissimum...	...	...	...	...	...	...	...	...	6	...	32	14	38	[illegible]
36	Miscellaneous	...	62	14	15	10	...	...	77	24	209	3	718	78	927	[illegible]
37	Vegetables ...	...	30	26	243	332	664	106	937	464	166	25	1,869	569	2,035	[illegible]
38	Fallow lands, &c. ...	...	1,289	55	3,777	22	1,291	10	6,357	87	504	3	4,106	88	4,610	[illegible]
	Total Flow and Lift...	...	20,751	2,048	148,870	8,535	95,268	3,736	264,889	14,319	73,949	978	260,314	41,521	334,263	[illegible]
	TOTAL DIVISIONS..	...	22,799		157,405		99,004		279,208		74,927		301,835		376,762	

R 1884-85.

IGATED IN EACH CANAL DIVISION.

Sirhind Canal.						Upper Sutlej Inundation Canals.		Lower Sohag and Para Canal.		Indus Inundation Canal.		Muzaffargarh Inundation Canals.		Total.		Lower Sutlej and Chenab Inundation Canals.	Shahpur Inundation Canals.	Grand Total.	No.
Division N.		4th Division.		Total.															
Flow.	Lift.	Flow.	Lift.	Flow.	Lift.	Flow.	Lift.	Flow.	Lift.	Flow.	Lift.	Flow.	Lift.	Flow.	Lift.				
...	...	...	...	...	...	56	7	...	...	360	49	470	46	8,428	988	929	...	10,345	1
...	...	5	...	5	...	61	22	...	...	23	1	4,119	452	64,363	2,333	2,879	35	69,610	2
...	...	...	...	...	...	...	...	...	...	...	...	...	...	296	...	...	...	296	3
...	...	...	...	...	...	6,909	61	...	...	13,891	57	32,161	81	135,052	561	11,780	9	147,402	4
16	...	6,041	14	6,076	14	1,062	255	..	...	36,128	8,900	14,529	1,331	88,085	13,276	55,360	2,321	159,042	5
112	7	1,291	25	1,403	33	757	573	...	...	...	...	1	1	15,794	2,557	251	6	18,608	6
...	...	176	...	176	...	7	10	...	...	6,057	1,188	7,791	937	14,145	2,148	7,913	1,225	25,431	7
1,743	15	20,659	42	22,402	57	20,286	1,075	46	501	43,950	2,851	66,493	3,113	361,633	42,744	126,103	3,405	533,885	8
...	...	...	...	...	...	...	...	...	...	...	...	...	...	53	26	...	...	79	9
...	...	...	...	...	...	689	291	...	...	...	...	56	10	781	307	180	2	1,270	10
112	3	615	...	727	3	244	29	...	4	...	...	1,191	20	4,606	585	1,547	23	6,761	11
...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	12
...	...	9	...	9	...	44	45	...	...	58	14	197	33	372	98	1,977	150	2,597	13
...	...	2	...	2	...	35	3	...	...	...	...	1,146	24	4,692	175	642	1	5,510	14
1	...	540	...	541	...	7,362	38	...	8	432	4	4,886	35	26,080	574	6,734	518	33,906	15
...	...	143	...	143	...	613	14	...	...	...	...	108	12	1,033	28	255	...	1,316	16
...	...	385	...	385	...	335	90	..	...	188	3	7,339	430	8,260	523	633	85	9,501	
...	...	...	...	...	...	12	...	...	...	...	...	902	3	1,967	83	145	22	2,217	18
...	...	...	...	...	...	...	...	...	...	...	...	17,124	58	17,146	59	3,184	...	20,389	19
...	...	9	...	9	...	233	7	...	...	840	130	227	31	1,300	168	826	1	2,295	20
...	...	...	...	...	...	...	...	...	...	...	...	...	...	506	246	...	...	752	21
...	...	19	...	19	...	...	...	...	...	6,885	314	...	...	18,640	342	...	435	19,417	22
...	...	...	...	...	...	17,476	3,058	...	..	...	...	...	...	18,192	3,278	...	...	21,470	23
...	...	43	...	43	...	387	4	...	...	...	...	...	...	39,594	2,459	605	...	42,658	24
6	...	306	2	313	3	6,042	911	...	...	29,522	3,234	21,467	1,929	128,581	12,508	40,327	5,133	186,549	25
1	...	186	2	187	2	139	15	...	...	...	...	5	1	1,091	65	1	1	1,158	26
...	...	...	...	...	...	3	...	...	...	14,976	286	37,698	2,181	85,377	2,987	59,549	...	147,913	27
...	...	...	...	...	...	...	...	...	...	...	...	...	...	20	1	...	...	21	28
...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	...	...	3	29
...	...	...	...	...	...	6	35	...	...	25	...	160	24	194	59	103	1	357	30
2	...	...	...	2	...	9	5	...	...	201	33	67	12	600	217	65	1	883	31
...	...	...	...	...	...	...	...	...	...	8	...	...	...	8	...	...	...	8	32
1	...	19	...	20	...	44	38	...	...	...	...	2	...	2,038	745	199	4	2,986	33
10	...	464	...	474	...	...	...	...	...	...	...	2	1	3,290	391	...	11	3,692	34
...	...	...	...	...	...	...	...	...	...	...	...	...	...	38	14	...	...	52	35
...	...	635	...	635	...	2,096	311	...	...	959	293	1,983	131	7,363	840	18,897	59	27,159	36
6	...	774	6	778	6	3,390	267	...	72	3,404	207	8,567	721	17,341	2,313	31,523	117	51,294	37
74	7	1,230	7	1,344	9	14,912	74	7	7	10,362	440	10,416	1,311	54,453	2,015	...	988	57,456	38
2,965	96	[illegible]	93	33,866	118	[illegible]	7,214	53	593	[illegible]	18,031	245,107	12,928	1,131,414	95,714	372,607	14,553	1,614,288	
[illegible]		[illegible]		[illegible]		93,774		646		187,302		258,035		1,227,128		372,607	14,553	1,614,288	

ABSTRACT.

CLASS.	KHARIF.		RABBI.		TOTAL.		KHARIF, FLOW AND LIFT.	RABBI, FLOW AND LIFT.	GRAND TOTAL.
	Flow.	Lift.	Flow.	Lift.	Flow.	Lift.			
Class I. ...	73,840	2,601	755	207	74,595	2,808	2,914	...	[illegible]
„ II. ...	140,966	2,587	2,405	768	143,371	3,355	12,728	112	[illegible]
„ III. ...	238,381	19,922	375,052	44,207	613,433	64,129	117,700	169,676	[illegible]
„ IV. ...	159,209	19,444	122,724	5,803	281,933	25,247	72,237	10,805	[illegible]
„ V. ...	5,066	77	10,835	96	15,901	173	...	988	[illegible]
„ VI. ...	672	...	1,509	2	2,181	2	...	...	[illegible]
TOTAL ...	618,134	44,631	513,280	51,083	1,131,414	95,714	205,579	181,581	[illegible]

IRRIGATION DEPARTMENT, PUNJAB.

A.

STATEMENT OF ASSESSMENTS.

1884-85.

GENERAL STATEMENT OF ASSESSMENTS OF THE IRRIGATION

1	2	3	4	5	6	7	8	9	10
		I. Water-rate.			II.	III.	IV.	V.	VI.
	DIVISIONS.	Net assessments.	Remissions and free grants.	Total.	Owner's rates.	Miscellaneous receipts by sale of water.	Water-supply of towns.	Receipts from plantations.	Receipts from other canal produce.
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. A.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
KHARIF, 1884-85.	Karnál Divn. W. J. Canal	49,115 8 10	1 7 8	49,117 0 6	16,009 6 3	46 8 5	... ...	571 5 6	2,080
	Hánsi do. do. ...	2,32,103 0 11	3,896 7 10	2,35,999 8 9	27,485 5 9	1,039 0 11	... ...	3,485 15 0	289
	Delhi do. do. ...	3,24,632 2 4	206 8 2	3,24,838 10 6	1,60,678 9 9	5,698 6 2	1,269 7 1	6,969 13 2	64
	Total W. J. Canal ...	6,05,850 12 1	4,104 7 8	6,09,955 3 9	2,04,173 5 9	6,783 15 6	1,269 7 1	11,027 1 8	2,435
	1st Divn. Bári Doáb Canal	1,19,502 12 6	129 2 8	1,19,631 15 2	... ...	859 14 0	... ...	2,735 14 0	51
	2nd do. do. ...	2,98,892 6 7	251 9 4	2,99,143 15 11	... ...	4,017 8 1	... ...	9,272 7 1	...
	Total B. D. Canal ...	4,18,395 3 1	380 12 0	4,18,775 15 1	... ...	4,877 6 1	... ...	12,008 5 1	51
	3rd Division Sirhind Canal	329 2 1	... ...	329 2 1	... ...	... ...	... ...	1,667 14 0	1,613
	4th do. do. ...	14,157 3 9	194 1 4	14,351 5 1	... ...	589 2 6	... ...	238 14 0	501
	Total Sirhind Canal ...	14,486 5 10	194 1 4	14,680 7 2	... ...	589 2 6	... ...	1,906 12 0	2,114
	Lower Sohág & Pára Canal	... ...	... ...	... ...	... ...	... ...	... ...	... ...	...
	Upper Sutlej Inundn. Canals	5,854 14 0	... ...	5,854 14 0	... ...	... ...	... ...	557 3 10	2,584
	Lower Sutlej and Chenab Inundation Canals ...	... ...	... ...	... ...	... ...	... ...	... ...	1,323 4 3	661
	Indus Inundation Canals	... ...	... ...	... ...	... ...	... ...	... ...	1,075 3 3	2,904
	Muzaffargarh Inundn. Canals	... ...	... ...	... ...	... ...	... ...	... ...	... ...	...
	Shahpur Inundn. Canals ...	16,348 9 2	14 3 6	16,362 12 8	... ...	... ...	... ...	... ...	...
	TOTAL KHARIF ...	10,60,935 12 2	4,693 8 6	10,65,629 4 8	2,04,173 5 9	12,250 8 1	1,269 7 1	27,897 14 1	10,751
RABBI, 1884-85.	Karnál Divn. W. J. Canal	11,739 0 0	3 0 0	11,742 0 0	5,034 0 0	5 0 0	... ...	429 10 10	167
	Hánsi do. do. ...	1,38,626 0 0	30 0 0	1,38,656 0 0	11,268 0 0	2,531 11 9	... ...	3,748 3 11	25
	Delhi do. do. ...	26,914 0 0	... ...	26,914 0 0	13,132 0 0	255 14 11	376 12 6	1,906 8 8	269
	Total W. J. Canal ...	1,77,279 0 0	33 0 0	1,77,312 0 0	29,434 0 0	2,792 10 8	376 12 6	6,084 7 5	462
	1st Divn. Bári Doáb Canal...	1,06,147 12 6	34 10 5	1,06,182 6 11	... ...	382 0 3	... ...	16,049 7 10	59
	2nd do. do. ...	4,18,469 6 8	... ...	4,18,469 6 8	... ...	9,320 11 4	... ...	8,100 5 7	...
	Total B. D. Canal ...	5,24,617 3 2	34 10 5	5,24,651 13 7	... ...	9,702 11 7	... ...	24,149 13 5	59
	3rd Division Sirhind Canal	3,567 12 7	2 15 2	3,570 11 9	... ...	... ...	... ...	2,796 6 1	472
	4th do. do. ...	41,510 0 0	1,768 0 0	43,278 0 0	... ...	340 7 7	... ...	36 9 0	...
	Total Sirhind Canal ...	45,077 12 7	1.770 15 2	46,848 11 9	... ...	340 7 7	... ...	2,832 15 1	472
	Lower Soháh & Pára Canal	... ...	... ...	... ...	... ...	... ...	... ...	... ...	...
	Upper Sutlej Inundn. Canals	8,299 11 3	... ...	8,299 11 3	... ...	... ...	... ...	440 13 9	1,059
	Lower Sutlej and Chenab Inundation Canals ...	173 0 0	... ...	173 0 0	... ...	... ...	... ...	4,066 15 6	565
	Indus Inundation Canals	... ...	... ...	... ...	... ...	... ...	... ...	414 10 0	9,631
	Muzaffargarh Inundn. Canals	... ...	... ...	... ...	... ...	... ...	... ...	... ...	...
	Shahpur Inundn. Canals ...	12,854 7 1	119 9 5	12,974 0 6	... ...	... ...	... ...	... ...	14
	TOTAL RABBI ...	7,68,301 2 1	1,958 3 0	7,70,259 5 1	29,434 0 0	12,835 13 10	376 12 6	37,989 11 2	12,255
GRAND TOTAL, KHARIF AND RABBI, 1884-85.	Karnál Divn. W. J. Canal	60,854 8 10	4 7 8	60,859 0 6	21,043 6 3	51 8 5	... ...	1,001 0 4	2,248
	Hánsi do. do. ...	3,70,729 0 11	3,926 7 10	3,74,655 8 9	38,753 5 9	3,570 12 8	... ...	7,234 2 11	314
	Delhi do. do. ...	3,51,546 2 4	206 8 2	3,51,752 10 6	1,73,810 9 9	5,954 5 1	1,646 3 7	8,876 5 10	334
	Total W. J. Canal ...	7,83,129 12 1	4,137 7 8	7,87,267 3 9	2,33,607 5 9	9,576 10 2	1,646 3 7	17,111 9 1	2,897
	1st Divn. Bári Doáb Canal	2,25,650 9 0	163 13 1	2.25,814 6 1	... ...	1,241 14 3	... ...	18,785 5 10	110
	2nd do. do. ...	7,17,361 13 3	251 9 4	7,17,613 6 7	... ...	13,338 3 5	... ...	17,372 12 8	...
	Total B. D. Canal ...	9,43,012 6 3	415 6 5	9,43,427 12 8	... ...	14,580 1 8	... ...	36,158 2 6	110
	3rd Division Sirhind Canal	3,896 14 8	2 15 2	3,899 13 10	... ...	... ...	... ...	4,464 4 1	2,08[illegible]
	4th do. do. ...	55.667 3 9	1.962 1 4	57,629 5 1	... ...	929 10 1	... ...	275 7 0	501
	Total Sirhind Canal ...	59,564 2 5	1,965 0 6	61.529 2 11	... ...	929 10 1	... ...	4,739 11 1	2,586
	Lower Sohág & Pára Canal	... ...	... ...	... ...	... ...	... ...	... ...	... ...	...
	Upper Sutlej Inundn. Canals	14,154 9 3	... ...	14,154 9 3	... ...	... ...	... ...	998 1 7	3,634
	L. S. & Chenab Indn. Canals	173 0 0	... ...	173 0 0	... ...	... ...	... ...	5,390 3 9	1,22[illegible]
	Indus Inundation Canals	... ...	... ...	... ...	... ...	... ...	... ...	1,489 13 3	12,53[illegible]
	Muzaffargarh Inundn. Canals	... ...	... ...	... ...	... ...	... ...	... ...	... ...	...
	Shahpur Inundn. Canals ...	29,203 0 3	133 12 11	29,336 13 2	... ...	... ...	... ...	... ...	14
	GRAND TOTAL ...	18,29,236 14 3	6,651 11 6	18,35,888 9 9	2,33,607 5 9	25,086 5 11	1,646 3 7	65,887 9 3	23,0[illegible]

EPARTMENT, PUNJAB, FOR THE YEAR 1884-85.

11	12	13	14	15	16	17	18	19	20
VII.	VIII.	IX.	X.	XI.					
Water-power.	Navigation receipts.	Rents of buildings.	Fines.	Miscellaneous receipts.	Contributions.	Clearance rate.	Total of columns from 7 to 17.	Increased land revenue.	GRAND TOTAL.
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
688 0 0	9,128 9 2	329 0 0	191 14 1	3,195 14 3	...	...	16,232 2 4		
...	12 2 0	86 9 10	227 7 0	36 1 3	...	...	5,177 2 0		
2,898 5 4	29 5 1	177 5 8	816 0 10	—6 1 6	...	...	17,917 9 6		
3,586 5 4	9,170 0 3	592 15 6	1,235 5 11	3,225 14 0	...	...	39,326 13 10	28,999 8 9	8,82,455 0 1
13,987 12 2	...	2,854 2 8	280 11 3	2,519 11 6	...	...	23,289 1 7	33,089 4 2	1,76,010 4 11
19,199 14 0	...	185 0 0	95 7 1	1,510 12 0	...	...	34,281 0 3	91,754 0 1	4,25,179 0 3
33,187 10 2	...	3,039 2 8	376 2 4	4,030 7 6	...	...	57,570 1 10	1,24,843 4 3	6,01,189 5 2
...	819 8 4	805 14 11	20 11 11	262 0 9	...	...	5,189 4 3	...	5,518 6 4
941 14 0	21 0 0	...	10 0 0	...	...	...	2,301 14 6	...	16,653 3 7
941 14 0	840 8 4	805 14 11	30 11 11	262 0 9	...	...	7,491 2 9	...	22,171 9 11
...	...	...	...	...	...	...	...	...	...
...	...	149 13 8	...	441 1 6	...	...	3,732 9 0	56,864 11 5	66,452 2 5
...	...	67 0 0	12 0 0	54 8 5	...	...	2,118 1 8	1,34,005 0 0	1,36,123 1 8
...	...	125 0 0	562 0 0	84 10 0	...	...	4,751 11 6	66,720 0 0	71,471 11 6
...	...	...	...	36 15 3	...	...	36 15 3	1,20,091 0 0	1,20,127 15 3
...	...	...	...	...	...	...	...	...	16,362 12 8
37,715 13 6	10,010 8 7	4,779 14 9	2,216 4 2	8,135 9 5	...	...	1,15,027 7 10	5,31,523 8 5	19,16,353 10 8
516 9 9	3,679 5 10	316 2 6	130 6 0	270 3 8	...	...	5,514 15 3		
...	...	211 14 2	14 9 0	509 8 9	...	...	7,041 0 2		
6,011 1 7	0 2 0	180 0 0	372 11 9	283 5 6	...	...	9,656 0 11		
6,527 11 4	3,679 7 10	708 0 8	517 10 9	1,063 1 11	...	...	22,212 0 4	29,325 11 3	2,58,283 11 7
9,668 8 6	...	282 10 3	339 6 1	655 13 6	...	...	27,436 14 5	37,617 15 5	1,71,237 4 9
11,869 12 0	...	286 5 11	392 1 0	53 6 3	...	...	30,022 10 1	1,56,468 14 0	6,04,960 14 9
21,538 4 6	...	569 0 2	731 7 1	709 3 9	...	...	57,459 8 6	1,94,086 13 5	7,76,198 3 6
...	283 12 8	651 3 8	7 10 8	278 1 11	...	...	4,489 8 10	...	8,060 4 7
1,305 0 0	33 0 0	...	15 0 0	...	...	...	1,730 0 7	...	45,008 0 7
1,305 0 0	316 12 8	651 3 8	22 10 8	278 1 11	...	...	6,219 9 5	...	53,068 5 2
...	...	...	...	...	...	...	...	307 0 0	307 0 0
...	...	138 2 10	...	235 9 10	...	...	1,864 14 5	32,920 1 3	43,084 10 11
...	...	60 0 0	192 0 0	319 13 9	1,24,525 1 8	1,94,231 0 0	3,23,960 11 11	1,84,030 0 0	5,08,163 11 11
...	...	150 0 0	987 0 0	18 6 0	...	54,000 0 0	65,201 4 1	93,008 0 0	1,58,209 4 1
...	...	...	...	25 8 0	36,913 0 9	92,150 0 0	1,29,088 8 9	1,20,569 0 0	2,49,657 8 9
...	169 8 9	...	...	...	...	...	183 15 0	...	13,157 15 6
29,370 15 10	4,165 13 3	2,276 7 4	2,450 12 6	2,649 13 2	1,61,438 2 5	3,40,381 0 0	6,06,190 8 5	6,54,246 9 11	20,60,130 7 5
1,204 9 9	12,807 15 0	645 2 6	322 4 1	3,466 1 11	...	...	21,747 1 7		
...	12 2 0	298 8 0	242 0 0	545 10 0	...	...	12,218 2 2		
8,909 6 11	29 7 1	357 5 8	1,188 12 7	277 4 0	...	...	27,573 10 5		
10,114 0 8	12,849 8 1	1,301 0 2	1,753 0 8	4,288 15 11	...	...	61,538 14 2	58,325 4 0	11,40,738 11 8
23,656 4 8	...	3,136 12 11	620 1 4	3,175 9 0	...	...	50,726 0 0	70,707 3 7	3,47,247 9 8
31,069 10 0	...	471 5 11	487 8 1	1,564 2 3	...	...	64,303 10 4	2,48,222 14 1	10,30,139 15 0
54,725 14 8	...	3,608 2 10	1,107 9 5	4,739 11 3	...	...	1,15,029 10 4	3,18,930 1 8	13,77,387 8 8
...	1,100 5 6	1,457 2 7	28 6 7	540 2 8	...	...	9,678 13 1	...	13,578 10 11
2,346 14 6	54 0 0	...	25 0 0	...	...	...	4,031 15 1	...	61,661 4 2
2,346 14 6	1,15[illegible] 5 6	1,457 2 7	53 6 7	540 2 8	...	...	13,710 12 2	...	75,239 15 1
...	...	...	...	...	...	...	...	307 0 0	307 0 0
...	...	288 0 6	...	676 11 4	...	...	5,597 7 5	89,784 12 8	1,09,536 13 4
...	...	127 0 0	204 0 0	374 6 2	1,24,525 1 8	1,94,231 0 0	3,26,078 13 7	3,18,035 0 0	6,44,286 13 7
...	...	275 0 0	1,549 0 0	103 0 0	...	54,000 0 0	69,952 15 7	1,59,728 0 0	2,29,680 15 7
...	...	...	...	67 7 3	36,913 0 9	92,150 0 0	1,29,125 8 0	2,40,660 0 0	3,69,785 8 0
...	169 8 9	...	...	...	...	...	183 15 0	...	29,520 12 2
47,086 13 4	14,174 3 10	7,066 6 1	4,667 0 8	10,785 6 7	1,61,438 2 5	3,40,381 0 0	7,21,218 0 3	11,85,770 2 4	39,76,484 2 1

SUPPLEMENT TO GENERAL STATEMENT A.

STATEMENT SHOWING THE DEMAND OF WATER-RATES ASSESSED FOR EACH SEASON OF 1884-85 IN EACH DISTRICT AND NATIVE STATE.

DEMANDS.

Divisions.	Districts.	*Kharif*, 1884-85. Net assessments. Rs.	A.	P.	Remissions. Rs.	A.	P.	Total. Rs.	A.	P.	*Rabbi*, 1884-85. Net assessments. Rs.	A.	P.	Remissions. Rs.	A.	P.	Total. Rs.	A.	P.	Latest month up to which assessed.
Karnál Division, W. J. Canal ...	Umballa ...	6,994	14	8	...	...	...	6,994	14	8	349	0	0	...	...	...	349	0	0	March 1885
	Kalsia ...	3,134	1	0	...	...	...	3,134	1	0	188	0	0	...	...	...	188	0	0	
	Karnál ...	38,986	9	2	1	7	8	38,988	0	10	11,202	0	0	3	0	0	11,205	0	0	
Hánsi ditto ditto ...	Bíkaner ...	269	8	4	8	5	4	277	13	8	763	0	0	...	...	...	763	0	0	Do.
	Jínd ...	73,306	9	5	3,858	3	10	77.164	13	3	38,203	0	0	...	...	...	38,203	0	0	
	Hissar ...	88,881	0	6	29	14	8	88,910	15	2	70,361	0	0	30	0	0	70.391	0	0	
	Karnál ...	33,600	14	3	...	...	...	33,600	14	3	15.916	0	0	...	...	...	15,916	0	0	
	Rohtak ...	36,045	0	5	...	...	...	36,045	0	5	13,383	0	0	...	...	...	13,383	0	0	
Delhi ditto ditto ...	Rohtak ...	1,10,350	15	1	97	4	5	1,10,448	3	6	14,665	0	0	...	...	...	14,665	0	0	Do.
	Delhi ...	1,57,242	3	7	102	2	10	1,57,344	6	5	4,746	0	0	...	...	...	4,746	0	0	
	Karnál ...	57,038	15	8	7	0	11	57,046	0	7	7,503	0	0	...	...	...	7,503	0	0	
1st Division, Bári Doáb Canal ...	Gurdáspur ...	73,884	4	0	96	4	11	73,980	8	11	13,688	12	11	18	8	6	13,707	5	5	Do.
	Amritsar ...	35,629	12	7	30	9	9	35,660	6	4	52,583	3	7	3	6	10	52,586	10	5	
	Lahore ...	9,988	11	11	2	4	0	9,990	15	11	39,875	12	0	12	11	1	39,888	7	1	
2nd ditto ditte ...	Gurdáspur ...	14,742	14	2	10	11	11	14,753	10	1	7,518	15	9	...	...	...	7,518	15	9	Do.
	Amritsar ...	1,46,852	13	1	238	5	4	1,47,091	2	5	1,48,660	13	4	...	...	...	1,48,660	13	4	
	Lahore ...	1,37,296	11	4	2	8	1	1,37,299	3	5	2,62,289	9	7	...	...	...	2,62,289	9	7	
3rd Division Sirhind Canal ...	Ferozepore ...	22	10	1	...	...	...	22	10	1	981	2	3	1	13	4	982	15	7	Do
	Ludhiána ...	306	8	0	...	...	...	306	8	0	2,586	10	4	1	1	10	2,587	12	2	
4th ditto ditto ...	Ferozepore ...	11,799	12	3	166	11	2	11,966	7	5	30,245	0	0	1,581	0	0	31,826	0	0	Do.
	Farídkot ...	2,237	0	2	24	11	10	2,261	12	0	10,977	0	0	178	0	0	11,155	0	0	
	Nábha ...	120	7	4	2	10	4	123	1	8	288	0	0	9	0	0	297	0	0	
Upp[illegible]utlej Inundation Canals	Lahore ...	5,820	14	0	...	...	...	5,820	14	0	8,254	11	3	...	...	...	8,254	11	3	Do.
	Montgomery ...		34	0	...	...	...	34	0	0	45	0	0	..	...	...	45	0	0	
L[illegible]r Sutlej and Chenab Inundation Canals ...	Mooltan ...	...	...	..	...	...	...	...	...	...	* 173	0	0	...	...	...	173	0	0	Do.
[illegible]apur Inundation Canals ...	Shahpur ...	16,348	9	2	14	3	6	16,362	12	8	12,854	7	1	119	9	5	12,974	0	6	Do.
GRAND TOTAL ...	...	10,60,935	12	2	4,693	8	6	10,65,629	4	8	7,68,301	2	1	1,958	3	0	7,70,259	5	1	...

TOTAL OF EACH DIVISION.

Divisions.	*Kharif* 1884-85. Net assessments. Rs.	A.	P.	Remissions. Rs.	A.	P.	Total. Rs.	A.	P.	*Rabbi*, 1884-85. Net assessments. Rs.	A.	P.	Remissions. Rs.	A.	P.	Total. Rs.	A.	P.
Karnál Division, W. J. Canal	49,115	8	10	1	7	8	49,117	0	6	11,739	0	0	3	0	0	11,742	0	0
Hánsi ditto ditto	2,32,103	0	11	3,896	7	10	2,35,999	8	9	1,38,626	0	0	30	0	0	1,38,656	0	0
Delhi ditto ditto	3,24,632	2	4	206	8	2	3,24,838	10	6	26,914	0	0	...	...	...	26,914	0	0
1st Division, Bári Doáb Canal	1,19,502	12	6	129	2	8	1,19,631	15	2	1,06,147	12	6	34	10	5	1,06,182	6	11
2nd ditto ditte	2,98,892	6	7	251	9	4	2,99,143	15	11	4,18,469	6	8	...	...	...	4,18,469	6	8
3rd Division Sirhind Canal	329	2	1	...	...	...	329	2	1	3,567	12	7	2	15	2	3,570	11	9
4th ditto ditto	14,157	3	9	194	1	4	14,351	5	1	41,510	0	0	1,768	0	0	43,278	0	0
Upp[illegible]utlej Inundation Canals	5,854	14	0	...	...	...	5 854	14	0	8,299	11	3	...	...	...	8,299	11	3
L[illegible]r Sutlej and Chenab Inundation Canals	...	...	...	...	...	...	...	...	...	17	30	0	...	...	...	173	0	0
[illegible]apur Inundation Canals	16,348	9	2	14	3	6	16,362	12	8	12,854	7	1	119	9	5	12,974	0	6
GRAND TOTAL	10,60,935	12	2	4,693	8	6	10,65,629	4	8	7,68,301	2	1	1,958	3	C	7,70,256	5	1

* For Kharif and Rabbi, 1884-85.

T. MOSS,
[illegible]

LAHORE:
[illegible]

B.

STATEMENT SHOWING DEMANDS ON ACCOUNT OF WATER-RATES DURING THE YEAR 1884-85, AMOUNT REALIZED AND BALANCE DUE ON 1st APRIL 1885.

Demands, 1884-85.

Divisions.	Balance of old crop. Rs.	A.	P.	Rabbi, 1883-84. Rs.	A.	P.	Kharif, 1884-85. Rs.	A.	P.	Total. Rs.	A.	P.
BARI DOAB CANAL.												
1st Division.												
Gurdáspur District ...	1,550	7	7	26,857	5	1	73,980	8	11	1,02,388	5	7
Deduct remissions	2	2	4	115	9	11	96	4	11	213	8	2
	1,548	5	3	26,742	4	2	73,884	4	0	1,02,174	13	5
Amritsar District ...	0	2	1	62,922	2	6	35,660	6	4	98,582	10	11
Deduct remissions	...	...	...	26	15	7	30	9	9	57	9	4
	0	2	1	62,895	2	11	35,629	12	7	98,525	1	7
Lahore District ...	...	...	...	33,733	6	6	9,990	15	11	43,724	6	8
Deduct remissions	...	...	...	24	10	0	2	4	0	26	14	0
	...	...	...	33,708	12	6	9,988	11	11	43,697	8	5
Total 1st Division Bári Doáb Canal ...	1,548	7	4	1,23,346	3	7	1,19,502	12	6	2,44,397	7	5
2nd Division.												
Gurdáspur District ...	5	11	3	9,071	0	1	14,753	10	1	23,830	5	5
Deduct remissions	...	...	...	32	7	0	10	11	11	43	2	11
	5	11	3	9,038	9	1	14,742	14	2	23,787	2	6
Amritsar District ...	6,045	14	4	1,54,533	0	10	*1,47,091	2	5	3,07,670	1	7
Deduct remissions	...	...	...	26	4	7	238	5	4	264	9	11
	6,045	14	4	1,54,506	12	3	1,46,852	13	1	3,07,405	7	8
Lahore District ...	10,208	3	2	2,29,281	6	8	†1,37,299	3	5	3,76,788	13	3
Deduct remissions	34	4	6	4	12	10	2	8	1	41	9	5
	10,173	14	8	2,29,276	9	10	1,37,296	11	4	3,76,747	3	10
Total 2nd Division Bári Doáb Canal ...	16,225	8	3	3,92,821	15	[illegible]	2,98,892	6	7	7,07,939	14	0
TOTAL BARI DOAB CANAL — Assessment ...	17,810	6	5	5,16,398	5	8	4,18,775	15	1	9,52,984	11	2
TOTAL BARI DOAB CANAL — Remissions ...	36	6	10	230	2	11	380	12	0	647	5	9
TOTAL BARI DOAB CANAL — Net Assessment	17,773	15	7	5,16,168	2	9	4,18,395	3	1	9,52,337	5	5

Realizations.

Divisions.	Balance of old crop. Rs.	A.	P.	Rabbi, 1883-84. Rs.	A.	P.	Kharif, 1884-85. Rs.	A.	P.	Total. Rs.	A.	P.
Gurdáspur District (1st Division)	1,548	5	3	26,738	8	8	72,858	5	11	1,01,145	3	10
Amritsar District (1st Division)	0	2	1	62,895	2	11	35,629	12	7	98,525	1	7
Lahore District (1st Division)	...	...	...	33,708	12	6	9,988	12	3	43,697	8	9
Total 1st Division Bári Doáb Canal ...	1,548	7	4	1,23,342	8	1	1,18,476	14	9	2,43,367	14	2
Gurdáspur District (2nd Division)	5	11	3	9,038	9	1	14,743	4	5	23,787	8	9
Amritsar District (2nd Division)	6,045	14	4	1,54,506	12	3	*1,46,830	7	3	3,07,383	1	10
Lahore District (2nd Division)	9,034	9	8	2,27,663	5	10	†1,27,944	13	1	3,64,642	12	7
Total 2nd Division Bári Doáb Canal ...	15,086	3	3	3,91,208	11	2	2,89,518	8	9	6,95,813	7	2
TOTAL BARI DOAB CANAL — Net Assessment	16,634	10	7	5,14,551	3	3	4,07,995	7	6	9,39,181	5	4

Balance on 1st April 1885.

Divisions.	Balance of old crop. Rs.	A	P	Rabbi, 1883-84. Rs.	A.	P.	Kharif, 1884-85. Rs.	A.	P.	Total. Rs.	A.	P.
Gurdáspur District (1st Division)	...	...	...	3	11	6	1,025	14	1	1,029	9	7
Amritsar District (1st Division)	...	...	...	...	...	...	...	...	...	...	...	...
Lahore District (1st Division)	...	...	...	...	...	...	A −0	0	4	−0	0	4
Total 1st Division Bári Doáb Canal ...	...	...	...	3	11	6	1,025	13	9	1,029	9	3
Gurdáspur District (2nd Division)	...	...	...	...	...	...	B −0	6	3	−0	6	3
Amritsar District (2nd Division)	...	...	...	...	...	...	22	5	10	22	5	10
Lahore District (2nd Division)	1,139	5	0	1,613	4	0	9,351	14	3	12,104	7	3
Total 2nd Division Bári Doáb Canal ...	1,139	5	0	1,613	4	0	9,373	13	10	12,126	6	10
TOTAL BARI DOAB CANAL — Net Assessment	1,139	5	0	1,616	15	6	10,399	11	7	13,156	0	1

* Includes Rs. 718-3-1 on account of Forest Department adjusted by book transfers.
† Do. Rs. 9,289-9-7 do. do. do. do.

STATEMENT SHOWING DEMANDS ON ACCOUNT OF WATER-RATES, &c.—*continued.*

Divisions.	Demands, 1884-85.												Realizations.												Balance on 1st April 1885.											
	Balance of old crop.			Rabbi, 1883-84.			Kharif, 1884-85.			Total.			Balance of old crop.			Rabbi, 1883-84.			Kharif, 1884-85.			Total.			Balance of old crop.			Rabbi, 1883-84.			Kharif, 1884-85.			Total.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
UPPER SUTLEJ INUNDATION CANALS.																																				
Lahore District	16	2	1	6,151	10	9	5,820	14	0	11,988	10	10																								
Deduct remissions	...	...	...	...	...	...	...	...	...	...	...	...																								
Net assessments	16	2	1	6,151	10	9	5,820	14	0	11,988	10	10	16	2	1	6,151	10	9	5,704	9	1	11,872	5	11	...	...	...	...	...	...	116	4	11	116	4	11
WESTERN JUMNA CANAL.																																				
KARNAL DIVISION.																																				
Karnál District	3,656	3	9	27,977	13	2	38,988	0	10	70,622	1	9																								
Deduct remissions	...	...	..	...	...	...	1	7	8	1	7	8																								
	3,656	3	9	27,977	13	2	38,986	9	2	70,620	10	1	3,656	3	9	27,977	13	2	33,213	6	6	64,847	7	5	...	...	...	...	...	...	5,773	2	8	5,773	2	8
Umballa District	...	...	...	1,613	14	4	6,994	14	8	8,608	13	0																								
Deduct remissions	...	...	...	...	...	...	...	...	...	...	...	...																								
	...	...	..	1,613	14	4	6,994	14	8	8,608	13	0	...	...	...	1,613	14	4	6,994	14	8	8,608	13	0	...	...	...	...	...	...	...	...	...	...	...	...
Kalsia State	...	...	...	593	7	4	3,134	1	0	3,727	8	4																								
Deduct remissions	...	...	...	...	...	...	...	...	...	...	...	...																								
	...	...	...	593	7	4	3,134	1	0	3,727	8	4	...	.	...	593	7	4	3,134	1	0	3,727	8	4	...	...	...	...	...	...	...	...	...	...	...	...
Total Karnál Division... ...	3,656	3	9	30,185	2	10	49,115	8	10	82,956	15	5	3,656	3	9	30,185	2	10	43,342	6	2	77,183	12	9	...	...	...	...	...	...	5,773	2	8	5,773	2	8
HANSI DIVISION.																																				
Karnál District	4,826	12	6	43,477	12	10	33,600	14	3	81,905	7	7																								
Deduct remissions	...	...	...	...	...	...	...	...	...	...	...	...																								
	4,826	12	6	43,477	12	10	33,600	14	3	81,905	7	7	4,826	12	6	43,477	12	10	33,268	5	8	81,572	15	0	...	...	...	...	...	...	332	8	7	332	8	7
Rohtak District	...	...	...	31,182	8	6	36,045	0	5	67,227	8	11																								
Deduct remissions	...	...	...	...	...	...	...	...	...	...	...	...																								
	...	...	...	31,182	8	6	36,045	0	5	67,227	8	11	...	...	...	31,182	8	6	36,045	0	5	67,227	8	11	...	...	...	...	...	...	...	...	...	...	...	...
Hissar District	...	...	...	1,04,703	8	8	88,910	15	2	1,93,614	7	10																								
Deduct remissions	...	...	...	...	...	...	29	14	8	29	14	8																								
	...	...	...	1,04,703	8	8	88,881	0	6	1,93,584	9	2	...	...	...	1,04,703	8	8	88,881	0	6	1,93,584	9	2	...	...	...	...	...	...	...	...	...	...	...	...

Jind State ... / Deduct remissions ...	...	98,538 7 5 / 4,928 12 2	77,164 13 3 / 3,858 3 10	1,75,701 4 8 / 8,785 1 0	...	93,609 10 3	73,306 9 5	1,66,916 3 8	...	...	...	...	...
	...	93,609 10 3	73,306 9 5	1,66,916 3 8									
Bikaner ... / Deduct remissions ...	...	162 8 0 / 4 14 0	277 13 8 / 8 5 4	440 5 8 / 13 3 4	...	157 10 0	269 8 4	427 2 4	...	...	...	332 8 7	332 8 7
	...	157 10 0	269 8 4	427 2 4					...	...	...		
Total Hissar Division ...	4,826 12 6	2,73,131 2 3	2,32,108 0 11	5,10,060 15 8	4,826 12 6	2,73,131 2 3	2,31,770 8 4	5,09,728 7 1	...				
DELHI DIVISION.													
Delhi District ... / Deduct remissions ...	4,195 6 2 / ...	1,29,629 5 8 / 56 10 10	1,57,344 6 5 / 102 2 10	2,91,169 2 3 / 158 13 8									
	4,195 6 2	1,29,572 10 10	1,57,242 3 7	2,91,010 4 7	4,195 6 2	1,29,578 12 8	1,43,502 5 0	2,77,276 7 10	...	...	C −6 1 10	13,739 14 7	13,733 12 9
Karnal District ... / Deduct remissions ...	8 4 4 / ...	49,769 1 0 / 0 9 0	57,046 0 7 / 7 0 11	1,06,823 5 11 / 7 9 11									
	8 4 4	49,768 8 0	57,038 15 8	1,06,815 12 0	8 4 4	49,768 8 0	57,034 15 8	1,06,811 12 ...	...	...	...	4 0 0	4 0 0
Rohtak District ... / Deduct remissions ...	1,271 12 11 / ...	1,01,614 9 4 / ...	1,10,448 3 6 / 97 4 5	2,13,334 9 9 / 97 4 5									
	1,271 12 11	1,01,614 9 4	1,10,350 15 1	2,13,237 5 4	1,271 12 11	1,01,614 9 4	1,10,350 15 1	2,13,237 5 4	...	...	...	...	...
Total Delhi Division ...	5,475 7 5	2,80,955 12 2	3,24,632 2 4	6,11,063 5 11	5,475 7 5	2,80,961 14 0	3,10,888 3 9	5,97,325 9 2	...	...	−6 1 10	13,743 14 7	13,737 12 9
TOTAL W. J. CANAL — Assessment...	13,958 7 8	5,89,261 0 3	6,09,955 3 9	12,13,174 11 8									
TOTAL W. J. CANAL — Remissions...	...	4,988 15 0	4,104 7 8	9,093 6 8									
TOTAL W. J. CANAL — Net Assessment ...	13,958 7 8	5,84,272 1 3	6,05,850 12 1	12,04,081 5 0	13,958 7 8	5,84,278 3 1	5,86,001 2 3	11,84,237 13 0	...	...	−6 1 10	19,849 9 10	19,843 8 0
INUNDATION CANALS.													
LOWER SUTLEJ AND CHENAB INUNDATION CANALS DIVISION.			D 173 0 0	173 0 0	...	...	173 0 0	173 0 0	...	...	...	...	...
Mooltan...	...	...					...	...	...	...	...	...	...
SHAHRUR INUNDATION CANALS.													
Shahpur District ... / Deduct remissions ...	... / ...	5,185 14 6 / 78 2 9	16,362 12 8 / 14 3 6	21,548 11 2 / 92 6 3	... / ...	...	...	...	...	...	...	5,124 9 6	5,124 9 6
Net Assessment	...	5,107 11 9	16,348 9 2	21,456 4 11	...	5,107 11 9	11,223 15 8	16,331 11 5	...	...	...		

STATEMENT SHOWING DEMANDS ON ACCOUNT OF WATER-RATES, &c.—*continued.*

Demands, 1884-85.

Divisions.	Balance of old crop. Rs.	A.	P.	Rabbi, 1883-84. Rs.	A.	P.	Kharif, 1884-85. Rs.	A.	P.	Total. Rs.	A.	P.
SIRHIND CANAL.												
3rd Division.												
Ludhiána District	...	...	...	...	...	...	306	8	0	306	8	0
Deduct remissions	...	..	...	...	...	...	...	...	..	...	...	...
	...	.	...	...	...	...	306	8	0	306	8	0
Ferozepore District	...	...	...	...	...	...	22	10	1	22	10	1
Deduct remissions	...	.	...	...	...	...	...	...	...	...	...	...
	...	...		...	...	..	22	10	1	22	10	1
Total 3rd Division ...	...	..	..	...	...	...	329	2	1	329	2	1
4th Division.												
Nabba State	...	..	...	...	...	...	123	1	8	123	1	8
Deduct remissions	...	..	...	...	...	...	2	10	4	2	10	4
	...	...	...	...	...		120	7	4	120	7	4
erozepore District	...	...	...	2,740	7	4	11,966	7	5	14,706	14	9
Deduct remissions	..	..	...	23	10	6	166	11	2	190	5	8
	...	...	...	2,716	12	10	11,799	12	3	14,516	9	1
Faridkot State	...	...	...	134	14	9	2,261	12	0	2,396	10	9
Deduct remissions	...	..	...	...	...	...	24	11	10	24	11	10
	...	...	..	134	14	9	2,237	0	2	2,371	14	11

Realizations.

Divisions.	Balance of old crop. Rs.	A.	P.	Rabbi, 1883-84. Rs.	A.	P.	Kharif, 1884-85. Rs.	A.	P.	Total. Rs.	A.	P.
Ludhiána District (net)	...	...	...	...	...	...	295	0	6	295	0	6
Ferozepore District (net)	...	...	...	...	...	...	22	10	1	22	10	1
Total 3rd Division	...	.	...	...	...	...	317	10	7	317	10	7
Nabba State (net)	...	...	...	...	...	...	...	...	...	...	...	..
erozepore District (net)	...	...	...	2,716	12	10	11,799	12	3	14,516	9	1
Faridkot State (net)	...	...	...	134	14	9	2,237	0	2	2,371	14	11

Balance on 1st April 1885.

Divisions.	Balance of old crop. Rs.	A.	P.	Rabbi, 1883-84. Rs.	A.	P.	Kharif, 1884-85. Rs.	A.	P.	Total. Rs.	A.	P.
Ludhiána District (net)	...	...	...	...	..	..	11	7	6	11	7	6
Ferozepore District (net)	...	...	...	...	...	...	...	...	...	...	...	...
Total 3rd Division	...	...	...	...	.	...	11	7	6	11	7	6
Nabba State (net)	...	..	...	...	...	...	120	7	4	120	7	4
erozepore District (net)	...	...	...	...	...	...	...	...	...	...	...	...
Faridkot State (net)	...	...	...	...	...	...	...	...	..	...	...	...

Hissar (late Sirsa) District	... ...	298 3 1	... ...	298 3 1	... .	298 3 1	... ...	298 3 1	... ...	... ...	... ...	... ...
Total 4th Division ...	... ...	3,149 14 8	14,157 3 9	17,307 2 5	... ...	3,149 14 8	14,036 12 5	17,186 11 1	... ...	... ...	120 7 4	120 7 4
TOTAL SIRHIND CANAL — Assessment ...	... ...	3,173 9 2	14,680 7 2	17,854 0 4								
TOTAL SIRHIND CANAL — Remissions ...	... .	23 10 6	194 1 4	217 11 10								
TOTAL SIRHIND CANAL — Net assessments...	... ...	3,149 14 8	14,486 5 10	17,636 4 6	... ...	3,149 14 8	14,354 7 0	17,504 5 8	... .	... ...	131 14 10	131 14 10
GRAND TOTAL ...	E 31,748 9 4	11,14,849 9 2	10,61,074 12 2	22,07,672 14 8	30,609 4 4	11,13,238 11 6	10,25,452 9 6	21,69,300 9 4	1,139 5 0	1,610 13 8	35,622 2 8	38,372 5 4

			Rs. A. P.
A to C—Excess realizations, but since refunded.			
D—Inclusive of Rabbi—			
E—Balance on 1st April 1884, as per last return			36,944 14 3
Additions since made in Bári Doáb Canal, 2nd Division—			
Lahore	24 1 4		
Gurdáspur	1 14 1		
			25 15 5
			36,970 13 8
Add minus balance owing to excess realizations, *vide* last return			0 1 0
			36,970 14 8
Deduct remissions since made, 1st Division Bári Doáb Canal, Gurdáspur	2 2 4		
2nd Division Bári Doáb Canal, Lahore ...	34 4 6		
Deduct demands for Rabbi 1883-84 erroneously shewn as balance for kharíf in Sháhpur District	5,185 14 6		
			5,222 5 4
			31,748 9 4

N. B.—Net revenue realized on account of—

	Bári Doáb Canal.	*Western Jumna Canal.*	*Sirhind Canal.*	*Upper Sutlej Inundation Canals.*	*Lower Sutlej Inundation Canals.*	*Shahpur Canals.*
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Gross realizations ...	9,39,181 5 4	11,84,237 13 0	17,504 5 8	11,872 5 11	173 0 0	16,331 11 5
Deduct refunds	1,703 6 1	1,157 5 10	...	...	...	470 2 10
Net Revenue... ...	9,37,477 15 3	11,83,080 7 2	17,504 5 8	11,872 5 11	173 0 0	15,861 8 7

T. MOSS,

Examiner of Public Works Accounts, Punjab.

LAHORE:
Dated 30th July 1885.

SUPPLEMENT TO STATEMENT B.

STATEMENT SHOWING THE REMISSIONS OF WATER-RATES ON ACCOUNT OF FREE GRANTS, SHORT SUPPLY AND INCORRECT ASSESSMENTS DURING 1884-85.

DIVISIONS.	Districts.	Free grants.			Short supply.			Incorrect assessments.			Total.			REMARKS.
		Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
1st Division Bári Doáb Canal ...	Gurdáspur ...	...	...	...	...	...	...	...	...	...	213	8	2	
	Amritsar ...	...	...	...	...	...	...	...	...	...	57	9	4	
	Lahore ...	...	...	...	...	...	...	...	...	...	26	14	0	
2nd Division Bári Doáb Canal...	Gurdáspur ...	...	...	...	...	...	...	...	...	...	43	2	11	
	Amritsar ...	...	...	...	...	...	...	...	...	...	264	9	11	
	Lahore ...	...	...	...	...	...	...	...	...	...	41	9	5	
Karnál Division W. J. Canal...	Umballa ...	...	...	...	...	...	...	...	...	...	...	...	...	
	Karnál ...	...	...	...	...	...	...	...	...	...	1	7	8	
	Kalsia ...	...	...	...	...	...	...	...	...	...	...	...	...	
Hánsi Division W. J. Canal ...	Karnál ...	...	...	...	...	...	...	...	...	...	...	...	...	
	Rohtak ...	...	...	...	...	...	...	...	...	...	...	...	...	
	Jínd ...	...	...	...	...	...	...	...	...	...	8,785	1	0	
	Bíkaner ...	...	...	...	...	...	...	...	...	...	13	3	4	
	Hissar ...	...	...	...	...	...	...	...	...	...	29	14	8	
Delhi Division W. J. Canal ...	Delhi ...	...	...	...	...	...	...	...	...	...	158	13	8	
	Karnál ...	...	...	...	...	...	...	...	...	...	7	9	11	
	Rohtak ...	...	...	...	...	...	...	...	...	...	97	4	5	
Upper Sutlej Inundation Canals	Lahore ...	...	...	...	...	...	...	...	...	...	...	...	...	
	Montgomery ...	...	...	...	...	...	...	...	...	...	...	...	...	
Shahpur Canals ...	Shahpur ...	...	...	...	...	...	...	...	...	...	92	6	3	
3rd Division Sirhind Canal ...	Ferozepore ...	...	...	...	...	...	...	...	...	...	...	...	...	
	Ludhiána ...	...	...	...	...	...	...	...	...	...	...	...	...	
4th ditto ditto ...	Ferozepore ...	...	...	...	...	...	...	...	...	...	190	5	8	
	Farídkot ...	...	...	...	...	...	...	...	...	...	24	11	10	
	Nabba ...	...	...	...	...	...	...	...	...	...	2	10	4	
	Total ...	...	...	...	...	...	...	...	...	...	10,050	14	6	

LAHORE :
Dated 30th July 1885.

T. MOSS,
Examiner of Public Works Account, Punjab.

C.

STATEMENT SHOWING COST OF MEASURING THE CROPS AND THE RATE PER 100 ACRES FOR THE YEAR 1884-85 AS COMPARED WITH 1883-84.

Divisions	By Chain or Map	Kharif 1884-85 Area	Kharif 1884-85 Cost			Kharif 1884-85 At 100 acres	Kharif 1883-84 Area	Kharif 1883-84 Cost			Kharif 1883-84 At 100 acres	Rabbi 1884-85 Area	Rabbi 1884-85 Cost			Rabbi 1884-85 At 100 acres	Rabbi 1883-84 Area	Rabbi 1883-84 Cost			Rabbi 1883-84 At 100 acres
		Acres.	Rs.	A.	P.	Rs.	Acres.	Rs.	A.	P.	Rs.	Acres.	Rs.	A.	P.	Rs.	Acres.	Rs.	A.	P.	Rs.
WESTERN JUMNA CANAL.																					
Karnál Division ...	Chain and Map...	17,146	54	13	9	0·32	19,017	340	9	2	1·79	5,653	26	7	9	0·47	14,367	215	3	9	1·49
Hansi " ...	Ditto ...	95,236	1,311	0	0	1·37	96,868	1,195	0	0	1·23	62.169	665	0	0	1·07	127,839	1,255	0	0	0·98
Delhi " ...	Map ...	87,134	834	1	9	0·95	86,438	1,158	3	9	1·33	11,870	157	3	5	1·32	127,897	1,367	5	6	1·06
		199,516	2,199	15	6	1·10	202,323	2,693	12	11	1·33	79,692	848	11	2	1·06	270,103	2,837	9	3	1·05
BARI DOAB CANAL.																					
1st Division ...	Chain and Map.	31,438	480	11	9	1·53	37,341	790	7	0	2·11	43,489	272	15	6	0·63	49,869	586	2	0	1·18
2nd " ...	Ditto ...	104,750	1,515	14	7	1·45	123,586	1,792	4	10	1·45	197,085	1,078	8	4	0·54	180,064	1,499	5	7	0·83
		136,188	1,996	10	4	1·46	160,927	2,582	11	10	1·60	240,574	1,351	7	10	0·56	229,933	2,085	7	7	0·90
SIRHIND CANAL.																					
3rd Division ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4th " ...	Chain and Map...	9,998	146	3	9	1·46	...	...	...	...	...	23,994	333	5	5	1·39	...	...	...	...	...
		9,998	146	3	9	1·46	...	...	...	...	...	23,994	333	5	5	1·39	...	...	...	...	...
INUNDATION CANALS.																					
Lower Sohag and Para Canal ...	...	...	...	...	...	...	...	...	...	...	...	655	1	0	9	0·16	...	...	...	...	...
Upper Sutlej Inundation Canals ...	Chain and Map...	49,439	268	7	8	0·54	34,696	256	1	3	0·74	54,410	337	12	7	0·62	47,204	286	2	2	0·60
Lower Sutlej and Chenab Inundation Canals	Chain ...	196,138	751	8	0	0 38	172,042	804	3	11	0·47	176,469	803	8	0	0·45	157,934	750	12	1	0·47
Indus Inundation Canals ...	Map ...	139,338	2,184	10	7	1·56	114,406	2,222	12	2	1·94	53,663	794	5	5	1·56	39,053	758	12	1	1·94

LAHORE:
Dated 30*th July* 1885.

T. MOSS,
Examiner of Public Works Accounts, Punjab.

STATEMENT SHOWING COST OF PREPARING DEMAND STATEMENTS DURING THE YEAR 1884-85 AS COMPARED WITH 1883-84.

Divisions.	Kharif.										Rabbi.									
	1884-85.					1883-84.					1884-85.					1883-84.				
	Area.	Cost.			At 100 acres.	Area.	Cost.			At 100 acres.	Area.	Cost.			At 100 acres.	Area.	Cost.			At 100 acres.
	Acres.	Rs.	A.	P.	Rs.	Acres.	Rs.	A.	P.	Rs.	Acres.	Rs.	A.	P.	Rs.	Acres.	Rs.	A.	P.	Rs.
WESTERN JUMNA CANAL.																				
Karnál Division	17,146	38	13	6	0·22	19,017	68	0	0	0·35	5,653	23	10	0	0·42	14,367	74	5	10	0·51
Hánsi "	95,236	770	0	0	1·07	96,868	747	0	0	0·77	62,169	725	0	0	1·16	127,839	726	0	0	0·56
Delhi "	87,134	466	1	4	0·53	86,438	321	7	1	0·37	11,870	105	9	10	0·88	127,897	402	3	3	0·31
	199,516	1,274	14	10	0·63	202,323	1,136	7	1	0·56	79,692	854	3	10	1·07	270,103	1,202	9	1	0·45
BARI DOAB CANAL.																				
1st Division	31,438	420	8	9	1·34	37,341	917	9	11	2·46	43,489	154	0	0	0·35	49,869	961	12	11	1·93
2nd "	104,750	455	11	1	0·43	123,586	2,262	7	6	1·83	197,085	373	15	9	0·19	180,064	2,672	3	10	1·48
	136,188	876	3	10	0·64	160,927	3,180	1	5	1·98	240,574	527	15	9	0·22	229,933	3,634	0	9	1·58
SIRHIND CANAL.																				
3rd Division	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4th "	9,998	163	14	0	1 64	...	...	...	...	...	23,994	222	13	3	0·92	...	...	...	...	...
	9,998	163	14	0	1·64	...	...	...	...	...	23,994	222	13	3	0·92	...	...	..	...	...
INUNDATION CANALS.																				
Lower Sohag and Para Canal	...	...	...	...	...	...	...	...	...	...	655	3	...	2	0·46	...	...	...	...	...
Upper Sutlej Inundation Canals	49,439	304	11	0	0·61	34,696	210	4	10	0·60	54,410	294	3	2	0·54	47,204	290	6	4	0 61
Indus Inundation Canals	139,338	261	4	0	0·19	114,406	210	12	6	0·18	50,663	94	15	9	0·19	39,053	71	15	2	0·18

LAHORE:
Dated 30th July 1885.

T. MOSS,
Examiner of Public Works Accounts, Punjab.

Public Works Department, Punjab,

IRRIGATION BRANCH.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 1.

GENERAL ABSTRACT OF FINANCIAL RESULTS.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 1.—General Abstract of Financial Results showing the Estimated Cost of Construction of Irrigation and Navigation Works, the Capital Outlay thereon, the Revenue derived therefrom, the Working Expenses, and the Interest on the Debt incurred in respect of those Works, for and to end of 1884-85.

PRODUCTIVE PUBLIC WORKS.

Name of Project.	Estimated cost of construction. Direct charges.	Estimated cost of construction. Indirect charges.	Estimated cost of construction. Total (a).	Capital outlay, inclusive of indirect charges Nos. 2 and 5. During 1884-85. Direct charges.	During 1884-85. Indirect charges.	During 1884-85. Total.	To end of 1884-85. Direct charges.	To end of 1884-85. Indirect charges.	To end of 1884-85. Total.	Receipts during 1884-85. Water-rates, &c. Actual transactions of the year.	Water-rates, &c. Adjustment on account of previous year.	Water-rates, &c. Total.	Collected with Land Revenue. Actual transactions of the year.	Collected with Land Revenue. Adjustment on account of previous year.	Collected with Land Revenue. Total.	Total. Actual transactions of the year.	Total. Adjustment on account of previous year.	Total. Total.	Working expenses and maintenance during 1884-85, inclusive of indirect charges Nos. 3 and 5. Direct Charges.	Working expenses. Indirect Charges.	Working expenses. Total.	Net result, excluding interest. Difference between revenue and working expenses. Excess revenue (surplus).	Net result, excluding interest. Excess expenditure (deficit).	Rate per cent. Of excess revenue.	Rate per cent. Of excess expenditure.	Simple interest during 1884-85.	Net result, including interest. Excess revenue (surplus).	Net result, including interest. Excess expenditure (deficit).	Rate per cent. Of excess revenue.	Rate per cent. Of excess expenditure.
Canals in Operation.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Bári Doáb Canal ...	1,57,98,600	...	1,57,98,600	2,43,191	6,269	2,49,460	1,53,25,000	6,22,178	1,59,47,178	10,54,211	...	10,54,211	2,73,606	1,960	2,75,566	13,27,817	1,960	13,29,777	4,72,895	26,712	4,99,607	8,30,170	...	5·20	...	6,08,136	2,22,034	...	1·39	...
Western Jumna Canal ...	1,07,90,504	5,50,420	1,13,40,924	5,25,153	20,799	5,45,952	96,20,433	4,97,803	1,01,18,236	16,02,372	...	16,02,372	58,325	...	58,325	16,60,697	...	16,60,697	4,41,770	35,652	4,77,422	11,83,275	...	11·69	...	3,74,314	8,08,961	...	7·99	...
Sirhind Canal, Imperial	2,10,28,815	10,38,711	2,20,67,526	6,19,916	27,446	6,47,362	1,94,14,390	10,40,317	2,04,54,707	32,482	...	32,482	...	...	...	32,482	...	32,482	1,40,223	4,987	1,45,210	...	1,12,728	..	0·55	7,64,177	...	8,76,905	...	4·28
Total Canals in Operation, Imperial ...	4,76,17,919	15,89,131	4,92,07,050	13,88,260	54,514	14,42,774	4,43,59,823	21,60,298	4,65,20,121	26,89,065	...	26,89,065	3,31,931	1,960	3,33,891	30,20,996	1,960	30,22,956	10,54,888	67,351	11,22,239	20,13,445	1,12,728	4·08	...	17,46,627	10,30,995	8,76,905	0·33	...
Contribution.																														
Sirhind Canal ...	1,24,37,305	4,10,759	1,28,48,064	5,13,585	...	5,13,585	1,12,10,392	...	1,12,10,392	6,380	...	6,380	...	...	...	6,380	...	6,380	32,917	...	32,917	19,00,717 (bracketed across both columns) ...	26,537	...	...	...	1,54,090 (bracketed across both columns) ...	26,537	...	...
Canals under Construction.																														
Lower Sohág and Pára ...	7,28,104	1,13,749	8,41,853	1,80,063	4,716	1,84,779	2,70,389	9,472	2,79,861	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chenab Canal ...	29,35,589	1,23,885	30,59,474	5,06,018	15,151	5,21,169	7,93,340	40,020	8,33,360	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7,214	...	7,214	...	2·57
Sidhnai Canal ...	7,48,727	25,753	7,74,480	2,40,751	6,642	2,47,393	3,37,293	10,791	3,48,084	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21,613	...	21,613	...	2·59
										...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	8,677	...	8.677	...	2·49
Total Canals under Construction ...	44,12,420	2,63,387	46,75,807	9,26,832	26,509	9,53,341	14,01,022	60,283	14,61,305	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	37,504	...	37,504	...	2·56
Grand Total — Imperial ...	5,20,30,339	18,52,518	5,38,82,857	23,15,092	81,023	23,96,115	4,57,60,845	22,20,581	4,79,81,426	26,89,065	...	26,89,065	3,31,931	1,960	3,33,891	30,20,996	1,960	30,22,956	10,54,888	67,351	11,22,239	20,13,445	1,12,728	3·96	...	17,84,131	10,30,995	9,14,409	0·24	...
Grand Total — Contribution	1,24,37,305	4,10,759	1,28,48,064	5,13,585	...	5,13,585	1,12,10,392	...	1,12,10,392	6,380	...	6,380	...	...	...	6,380	...	6,380	32,917	...	32,917	19,00,717 (bracketed across both columns) ...	26,537	...	...	...	1,1[illegible] (bracketed across both columns) ...	26,537	...	...

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 1.—General Abstract of Financial Results showing the Estimated Cost of Construction of Irrigation and Navigation Works, the Capital Outlay thereon, the Revenue derived therefrom, the Working Expenses, and the Interest on the Debt incurred in respect of those Works, for and to end of 1884-85.

IRRIGATION AND NAVIGATION WORKS NOT CLASSED AS PRODUCTIVE.

Name of Project.	Estimated cost of construction. Direct charges.	Estimated cost of construction. Indirect charges.	Estimated cost of construction. Total.	Capital Outlay, inclusive of Indirect Charges Nos. 2 and 5. During 1884-85. Direct charges.	During 1884-85. Indirect charges.	During 1884-85. Total.	To end of 1884-85. Direct charges.	To end of 1884-85. Indirect charges.	To end of 1884-85. Total.	Receipts during 1884-85. Water-rates, &c. Actual transactions of the year.	Water-rates, &c. Adjustment on account of previous year.	Water-rates, &c. Total.	Collected with Land Revenue. Actual transactions of the year.	Collected with Land Revenue. Adjustment on account of previous year.	Collected with Land Revenue. Total.	Total. Actual transactions of the year.	Total. Adjustment on account of previous year.	Total. Total.	Working Expenses and Maintenance during 1884-85, inclusive of Indirect Charges Nos. 3 & 5. Direct charges.	Working Expenses. Indirect charges.	Working Expenses. Total.	Net Result excluding Interest (difference between Revenue and Working Expenses.) Excess revenue (surplus).	Excess expenditure (deficit).	Rate per cent. Of excess revenue.	Rate per cent. Of excess expenditure.	Simple Interest during 1884-85.	Net Result, including Interest. Excess revenue (surplus).	Excess expenditure (deficit).	Rate per cent. Of excess revenue.	Rate per cent. Of excess expenditure.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Canals in Operation for which Capital and Revenue Accounts are kept.																														
Upper Sutlej Inundation Canals...	5,23,317	...	5,23,317	−1,141	...	−1,141	5,21,103	56,148	5,77,251	17,470	...	17,470	81,322	−13	81,309	98,792	−13	98,779	1,10,490	6,405	1,16,895	...	18,116	...	3·13	...	...	...	...	...
Lower Sutlej and Chenab Canals...	1,09,555	...	1,09,555	164	...	164	1,08,574	2,541	1,11,115	3,26,252	...	3,26,252	3,18,035	...	3,18,035	6,44,287	...	6,44,287	4,12,339	10,323	4,22,662	2,21,625	...	199·45	...	...	...	...	...	...
Indus Inundation Canals ...	6,92,236	...	6,92,236	−81	...	−81	6,87,906	19,729	7,07,635	68,291	...	68,291	1,59,728	...	1,59,728	2,28,019	...	2,28,019	2,41,919	10,654	2,52,573	...	24,554	...	3·46	...	...	...	...	...
Shahpur Canals ...	38,868	...	38,868	...	...	...	38,868	1,871	40,739	16,516	...	16,516	...	...	...	16,516	...	16,516	10,680	169	10,849	5,667	...	13·91	...	...	...	...	...	...
Mādhopur Workshops ...	5,32,843	...	5,32,843	−3,059	...	−3,059	4,57,175	...	4,57,175	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total Canals in Operation ...	18,96,819	...	18,96,819	−4,117	...	−4,117	18,13,626	80,289	18,93,915	4,28,529	...	4,28,529	5,59,085	−13	5,59,072	9,87,614	−13	9,87,601	7,75,428	27,551	8,02,979	2,27,292	42,670	9·74	...	...	...	...	...	...
																						1,84,622								
Canals under Construction.																						...	...	...	...	...	...	...	...	...
Abdul Rahman Khan's Canal ...	35,095	...	35,095	...	...	...	35,095	...	35,095	...	...	...	...	...	...	...	...	...	...	...	...									
Grand Total ...	19,31,914	...	19,31,914	−4,117	...	−4,117	18,48,721	80,289	19,29,010	4,28,529	...	4,28,529	5,59,085	−13	5,59,072	9,87,614	−13	9,87,601	7,75,428	27,551	8,02,979	2,27,292	42,670	9·56	...	...	...	...	...	...
																						1,84,622								
Canals in Operation for which only Revenue Accounts are kept.																														
Muzaffargarh Canals ...	...	...	...	...	...	...	...	...	...	1,29,125	...	1,29,125	2,40,660	...	2,40,660	3,69,785	...	3,69,785	1,81,812	6,585	1,88,397	1,81,388	...	...	...	...	...	...	...	...

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 1.—General Abstract of Financial Results showing the Estimated Cost of Construction of Irrigation and Navigation Works, the Capital Outlay thereon, the Revenue derived therefrom, the Working Expenses, and the Interest on the Debt incurred in respect of those Works, for and to end of 1884-85.

FAMINE RELIEF AND INSURANCE WORKS.

Name of Project.	Estimated cost of construction.			Capital Outlay, inclusive of indirect charges Nos. 2 and 5.						Receipts during 1884-85.									Working Expenses and Maintenance during 1884-85, inclusive of indirect charges Nos. 3 and 5.			Net Result, excluding Interest. (Difference between revenue and working expenses.)				Simple interest during 1884-85.	Net Result, including Interest.			
				During 1884-85.			To end of 1884-85.			Water-rates, &c.			Collected with Land Revenue.			Total.								Rate per cent.					Rate per cent.	
	Direct charges.	Indirect charges.	Total (a).	Direct charges.	Indirect charges.	Total.	Direct charges.	Indirect charges.	Total.	Actual transactions of the year.	Adjustment on account of previous year.	Total.	Actual transactions of the year.	Adjustment on account of previous year.	Total.	Actual transactions of the year.	Adjustment on account of previous year.	Total.	Direct charges.	Indirect charges.	Total.	Excess revenue (surplus.)	Excess expenditure (deficit.)	Of excess revenue.	Of excess expenditure.		Excess revenue (surplus.)	Excess expenditure (deficit.)	Of excess revenue.	Of excess expenditure.
	Rs.	Rs,	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rt.	Rs.	Rs,	Rs.	Rs.	Re,	Rs.	Rs.	Rs.	Rs.	Rs,	Rs.	Rs.	Rs.	Rs,
Canals under construction.																														
Swát River Canal ...	35,45,810	1,79,468	37,25,278	3,14,177	8,400	3,22,577	30,32,021	1,04,962	31,36,983																					

(a). Exclusive of provision for interest charges included in the project estimate.

T. MOSS.

Public Works Department, Punjab,

IRRIGATION BRANCH.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 2.

CAPITAL ACCOUNTS.

IRRIGATION BRANCH. PUNJAB PROVINCE

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

WESTERN JUMNA CANAL PROJECT.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1884-85.

HEADS OF ACCOUNT.	Direct Charges. Previous.	Direct Charges. 1884-85.	Direct Charges. Total.	Estimated cost of construction.
I.—WORKS.				
(1). Head Works—				
B.—Land ...	4,710	...	4,710	
C.—Works ...	4,05,507	...	4,05,507	
K.—Buildings ...	13,603	...	13,603	
P.—Maintenance ...	24,839	...	24,839	
Total ...	4,48,659	...	4,48,659	
(2). Main Canals and Branches—				
A.—Preliminary Expenses ...	32,137	140	32,277	
B.—Land ...	1,65,150	14	1,65,164	
D.—Regulators ...	1,57,542	...	1,57,542	
E.—Falls and Weirs ...	2,50,585	985	2,51,570	
*F*1.—Other Cross Drainage Works ...	1,15,269	—19	1,15,250	
G.—Bridges ...	5,18,759	1,959	5,20,718	
H.—Escapes ...	2,22,391	...	2,22,391	
I.—Navigation Works ...	11,33,664	92,668	12,26,332	
J.—Mills ...	142	...	142	
K.—Buildings ...	77,457	209	77,666	
L.—Earth-work ...	10,04,640	76,590.	10,81,230	
M.—Plantations ...	5,333	176	5.509	
O.—Miscellaneous ...	29,925	...	29,925	
P.—Maintenance ...	68,439	23,235	91,674	
Total ...	37,81,433	1,95,957	39,77,390	
(3). Distributaries—				
A.—Preliminary Expenses ...	8,460	2,849	11,309	
B.—Land ...	67,826	13.780	81,606	
C.—Works ...	2,68,042	60.696	3,28,738	
L.—Earth-work ...	2,82,425	69,506	3,51,931	
O.—Miscellaneous ...	44,479	27,389	71,868	
P.—Maintenance ...	6,602	5,145	11,747	
Total ...	6,77,834	1,79,365	8,57,199	
(4). Drainage and Protective Works—				
A.—Preliminary Expenses ...	1.632	3,082	4,714	
B.—Land ...	6,979	1,459	8,438	
C.—Works ...	49,681	13,712	63,393	
L.—Earth-work ...	44,325	15,430	59,755	
O.—Miscellaneous ...	4,120	...	4,120	
Total ...	1,06,737	33,683	1,40,420	
Total ...	50,14,663	4,09,005	54,23,668	
Add Expenditure on General Works to end of 1863-64 ...	19,24,123	...	19,24,123	
Total I.—Works ...	69,38,786	4,09,005	73,47,791	[illegible]
II.—ESTABLISHMENT.				
(5). Direction ...	3,19,987	19,678	3,39,665	
(6). Executive ...	13,37.599	83,521	14,21,120	
(7). Medical ...	9.611	1,017	10,628	
(8). Special Survey ...	1,15,777	677	1,16,454	
(8½). Special Field Survey ...	88	...	88	
Total ...	17,83.062	1,04,893	18,87,955	[illegible]
Add Expenditure on General Works to end of 1863-64 ...	1,85,590	...	1,85,590	
Total Establishment ...	19,68,652	1,04.893	20,73,545	
III.—TOOLS AND PLANT.				
(9). Navigation Plant ...	1,042	...	1,040	
(12). Miscellaneous ...	1,02,092	5,784	1,07,876	
(13). Repairs and Carriage ...	8,770	100	8,870	
Total ...	1,11,902	5,884	1,17,786	[illegible]
IV.—SUSPENSE ACCOUNTS.				
(14). Stock ...	84,431	6.205	90,636	
(16). Miscellaneous Advances ...	683	—169	514	
Total ...	85,114	6,036	91,150	
Grand Total ...	91,04,454	5,25,818	96,30,272	[illegible]
V.—Less Receipts on Capital Account ...	9,174	665	9,839	[illegible]
Net Total ...	90,95,280	5,25,153	96,20,433	[illegible]

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT. PUNJAB PROVINCE.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

BARI DOAB CANAL PROJECT.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1884-85.

HEADS OF ACCOUNT.	DIRECT CHARGES.			Estimated cost of construction.
	Previous.	1884-85.	Total.	
	Rs.	Rs.	Rs.	Rs.
I.—WORKS.				
(1). HEAD WORKS—				
C.—Works	7,15,479	...	7,15,479	
K.—Buildings	43,668	...	43,668	
TOTAL	7,59,147	...	7,59,147	
(2).—MAIN CANAL AND BRANCHES—				
A.—Preliminary Expenses	3,351	...	3,351	
B.—Land	1,20,129	...	1,20,129	
D.—Regulators	3,34,037	...	3,34,037	
E.—Falls and Weirs	15,09,036	1,00,391	16,09,427	
F.—River and Hill Torrent Works	5,39,998	...	5,39,998	
F1.—Other Cross Drainage Works	1,17,797	...	1,17,797	
G.—Bridges	8,19,438	924	8,20,362	
H. Escapes	6,38,733	...	6,38,733	
I.—Navigation Works	4,78,588	...	4,78,588	
J.—Mills	12,666	...	12,666	
K.—Buildings	3,56,706	...	3,56,706	
L.—Earth-work	36,29,890	...	36,29,890	
M.—Plantations	78,884	3,934	82,818	
O.—Miscellaneous	3,52,306	...	3,52,306	
P.—Maintenance	75,872	...	75,872	
TOTAL	90,67,431	1,05,249	91,72,680	
(3). DISTRIBUTARIES—				
A.—Preliminary Expenses	8,663	555	9,218	
B.—Land	94,590	1,712	96,302	
C.—Works	6,76,130	42,202	7,18,332	
L.—Earth-work	8,96,482	56,024	9,52,506	
O.—Miscellaneous	1,43,222	6,929	1,50,151	
P.—Maintenance	8,345	9	8,354	
AND—				
Dinanagar Navigation Channel	35,776	...	35,776	
Shahpur water-course	63,427	...	63,427	
Lahore city rájbaha	12,724	...	12,724	
TOTAL	19,39,359	1,07,431	20,46,790	
(4). DRAINAGE AND PROTECTIVE WORKS—				
B.—Land	3	...	3	
C.—Works	26,909	...	26,909	
L.—Earth-work	83,505	...	83,505	
TOTAL	1,10,417	...	1,10,417	
TOTAL I.—WORKS	1,18,76,354	2,12,680	1,20,89,034	1,24,54,249
II.—ESTABLISHMENT.				
(5). Direction	6,65,949	10,548	6,76,497	
(6). Executive	19,90,877	37,814	20,28,691	
(7). Medical	4,833	435	5,268	
TOTAL	26,61,659	48,797	27,10,456	27,94,575
III.—TOOLS AND PLANT.				
(9). Navigation Plant	22	...	22	
(10). Wood Plant	258	...	258	
(11). Miscellaneous	4,78,312	52	4,78,364	
(12). Repairs and Carriage	2,360	...	2,360	
TOTAL	4,80,952	52	4,81,004	4,89,619
IV.—SUSPENSE ACCOUNTS.				
(12). Stock	76,813	−15,838	60,975	
(13). Stock Purchases and Sales	−107	−3,500	−3,607	
(14). Miscellaneous Advances	964	1,840	2,804	
TOTAL	77,670	−17,498	60,172	75,035
GRAND TOTAL	1,50,96,635	2,44,031	1,53,40,666	1,58,13,478
V.—LESS RECEIPTS ON CAPITAL ACCOUNT	14,826	840	15,666	14,878
NET TOTAL	1,50,81,809	2,43,191	1,53,25,000	1,57,98,600

IRRIGATION BRANCH. PUNJAB PROVINCE

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

CHENAB CANAL PROJECT.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1884-85.

Heads of Account.	Direct Charges. Previous.	Direct Charges. 1884-85.	Direct Charges. Total.	Estimated cost of construction.
I.—WORKS.				
(1). Head Works—				
A.—Preliminary Expenses	295	...	295	—
B.—Land	...	...	...	[illegible]
C.—Works	1	422	423	[illegible]
K.—Buildings	...	...	...	[illegible]
P.—Maintenance	...	...	...	[illegible]
Total	296	422	718	[illegible]
(2). Main Canal and Branches—				
A.—Preliminary Expenses	4,724	4,907	9,631	[illegible]
B.—Land	26,680	6,936	33,616	[illegible]
D.—Regulators	4,060	42,306	46,366	[illegible]
E.—Falls and Weirs	...	...	...	[illegible]
F.—River and Hill Torrent Works	1,535	...	1,535	...
F 1.—Other Cross Drainage Works	...	3,800	3,800	[illegible]
G.—Bridges	2,971	47,980	50,951	[illegible]
H.—Escapes	30,347	73,496	1,03,843	[illegible]
K.—Buildings	28,808	12,310	41,118	[illegible]
L.—Earth-work	89,476	1,90,704	2,80,180	[illegible]
M.—Plantations	237	75	312	[illegible]
O.—Miscellaneous	58	1	59	[illegible]
P.—Maintenance	...	862	862	[illegible]
Total	1,88,896	3,83,377	5,72,273	[illegible]
(3). Distributaries—				
A.—Preliminary Expenses	648	763	1,411	
B.—Land	...	4,267	4,267	
C.—Works	...	10,943	10,943	
L.—Earth-work	144	4,941	5,085	
O.—Miscellaneous	...	195	195	
Total	792	21,109	21,901	[illegible]
Total I.—WORKS	1,89,984	4,04,908	5,94,892	[illegible]
II.—ESTABLISHMENT.				
(5). Direction	8,114	19,405	27,519	
(6). Executive	41,779	48,694	90,473	
(7). Medical	1,408	1,418	2,826	
Total	51,301	69,517	1,20,818	[illegible]
III.—TOOLS AND PLANT.				
(12). Miscellaneous	14,343	10,212	24,555	
(13). Repairs and Carriage	60	736	796	
Total	14,403	10,948	25,351	[illegible]
IV.—SUSPENSE ACCOUNTS.				
(14). Stock	31,329	20,972	52,301	
(15). Stock Purchases and Sales	4	487	491	
(16). Miscellaneous Advances	375	—11	364	
Total	31,708	21,448	53,156	...
Grand Total	2,87,396	5,06,821	7,94,217	[illegible]
V.—LESS RECEIPTS ON CAPITAL ACCOUNT	74	803	877	[illegible]
Net Total	2,87,322	5,06,018	7,93,340	[illegible]

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

LOWER SOHAG AND PARA CANAL PROJECT.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1884-85.

HEADS OF ACCOUNT.	Direct Charges.			Estimated cost of construction.
	Previous.	1884-85.	Total.	
I.—WORKS.				
(1) Main Canal and Branches—				
A.—Preliminary Expenses	1,032	570	1,602	13,010
B.—Land	5,690	...	5,690	24,265
D.—Regulators	...	...	...	15,209
E.—Falls and Weirs	249	30,167	30,416	36,000
K.—Buildings	10,354	9,559	19,913	32,000
L.—Earth-work	21,674	1,02,966	1,24,640	3,99,826
P.—Maintenance	...	...	...	8,050
Total ...	38,999	1,43,262	1,82,261	5,28,360
(2) Distributaries—				
A.—Preliminary Expenses	73	117	190	
Total ...	73	117	190	32,500
Total I.—WORKS ...	39,072	1,43,379	1,82,451	5,60,860
II.—ESTABLISHMENT.				
(5) Direction	1,669	7,166	8,835	
(6) Executive	32,511	25,855	58,366	
(7) Medical	1,027	667	1,694	
Total ...	35,207	33,688	68,895	1,50,418
III.—TOOLS AND PLANT.				
(10) Miscellaneous	3,757	2,110	5,867	
(11) Repairs and Carriage	...	35	35	
Total ...	3,757	2,145	5,902	16,826
IV.—SUSPENSE ACCOUNTS.				
(12) Stock	12,268	949	13,217	
([illegible]) Miscellaneous Advances	38	—38	...	
Total ...	12,306	911	13,217	...
GRAND TOTAL ...	90,342	1,80,123	2,70,465	7,28,104
V.—Less Receipts on Capital Account ...	16	60	76	...
Net Total ...	90,326	1,80,063	2,70,389	7,28,104

IRRIGATION BRANCH. PUNJAB PROVINCE.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

SIDHNAI CANAL PROJECT.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1884-85.

HEADS OF ACCOUNT.	Direct Charges. Previous.	1884-85.	Total.	Estimated cost of construction.
I.—WORKS.	Rs.	Rs.	Rs.	Rs.
(1). Head Works—				
A.—Preliminary Expenses ...	707	47	754	[illegible]
C.—Works ...	11,913	77,869	89,782	[illegible]
K.—Buildings ...	2,470	1,658	4,128	[illegible]
O.—Miscellaneous ...	...	13	13	...
Total ...	15,090	79,587	94,677	[illegible]
(2).—Main Canal and Branches—				
A.—Preliminary Expenses ...	1,322	878	2,200	[illegible]
B.—Land ...	...	447	447	[illegible]
D.—Regulators ...	...	...	...	[illegible]
G.—Bridges ...	...	12,448	12,448	[illegible]
K.—Buildings ...	327	7,967	8,294	[illegible]
L.—Earth-work ...	15,531	72,546	88,077	[illegible]
M.—Plantations ...	...	...	...	[illegible]
O.—Miscellaneous ...	...	202	202	[illegible]
P.—Maintenance ...	...	...	...	[illegible]
Total ...	17,180	94,488	1,11,668	[illegible]
(3). Distributaries—				
A.—Preliminary Expenses ...	645	1,793	2,438	[illegible]
C.—Works ...	...	6,816	6,816	[illegible]
L.—Earth-work ...	...	16,456	16,456	[illegible]
Total ...	645	25,065	25,710	[illegible]
(4). Drainage and Protective Works—				
A.—Preliminary Expenses ...	36	...	36	[illegible]
L.—Earth-work ...	...	...	...	[illegible]
Total ...	36	...	36	[illegible]
Total I.—WORKS ...	32,951	1,99,140	2,32,091	[illegible]
II.—ESTABLISHMENT.				
(5). Direction ...	1,648	9,935	11,583	
(6). Executive ...	28,644	35,674	64,318	
(7). Medical ...	29	1,479	1,508	
Total ...	30,321	47,088	77,409	[illegible]
III.—TOOLS AND PLANT.				
(12). Miscellaneous ...	12,557	6,737	19,294	
(13). Repairs and Carriage ...	244	653	897	
Total ...	12,801	7,390	20,191	[illegible]
IV.—SUSPENSE ACCOUNTS.				
(14). Stock ...	23,097	−15,431	7,666	
(15). Stock Purchases and Sales ...	−2,823	2,829	6	
(16). Miscellaneous Advances ...	257	−206	51	
Total ...	20,531	−12,808	7,723	...
GRAND TOTAL ...	96,604	2,40,810	3,37,414	[illegible]
V.—LESS RECEIPTS ON CAPITAL ACCOUNT ...	62	59	121	...
Net Total ...	96,542	2,40,751	3,37,293	[illegible]

IRRIGATION BRANCH. PUNJAB PROVINCE.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

SIRHIND CANAL PROJECT.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1884-85.

HEADS OF ACCOUNT.	DIRECT CHARGES.									Estimated cost of construction.
	IMPERIAL.			CONTRIBUTION.			TOTAL.			
	Previous.	1884-85.	Total.	Previous.	1884-85.	Total.	Previous.	1884-85.	Total.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I.—WORKS.										
(I). Head Works—										
A.—Preliminary Expenses	...	...	...	...	755	755	...	755	755	...
B.—Land	7,490	...	7,490	3,745	...	3,745	11,235	...	11,235	...
C.—Works	5,95,143	1,510	5,96,653	2,97,570	...	2,97,570	8,92,713	1,510	8,94,223	8,97,806
K.—Buildings	71,599	−1,000	70,599	35,799	−500	35,299	1,07,398	−1,500	1,05,898	1,22,481
O.—Miscellaneous	50,279	233	50,512	25,138	21	25,159	75,417	254	75,671	3,000
P.—Maintenance	25,119	−10	25,109	12,559	−5	12,554	37,678	−15	37,663	38,640
TOTAL	7,49,630	733	7,50,363	3,74,811	271	3,75,082	11,24,441	1,004	11,25,445	10,61,927
(II). Main Canal and Branches—										
A.—Preliminary Expenses	25,119	71	25,190	14,986	2,602	17,588	40,105	2,673	42,778	59,588
B.—Land	4,37,465	27,735	4,65,200	2,42,620	3,688	2,46,308	6,80,085	31,423	7,11,508	9,88,268
D.—Regulators	3,53,945	2,104	3,56,049	2,75,984	560	2,76,544	6,29,929	2,664	6,32,593	6,27,552
E.—Falls and Weirs	6,68,915	35,075	7,03,990	3,51,509	30,668	3,82,177	10,20,424	65,743	10,86,167	14,49,744
F1.—Other Cross Drainage Works	12,81,057	...	12,81,057	9,87,859	922	9,88,781	22,68,916	922	22,69,838	24,47,781
G.—Bridges	5,08,867	13,447	5,22,314	3,35,411	41,065	3,76,476	8,44,278	54,512	8,98,790	8,16,843
H.—Escapes	1,33,052	9,017	1,42,069	51,560	8,935	60,495	1,84,612	17,952	2,02,564	1,80,085
I.—Navigation Works	16,88,996	23,442	17,12,438	3,41,993	598	3,42,591	20,30,989	24,040	20,55,029	27,57,025
K.—Buildings	2,63,984	49,301	3,13,285	1,76,313	21,232	1,97,545	4,40,297	70,533	5,10,830	4,35,162
L.—Earth-work	47,48,181	68,714	48,16,895	28,13,861	65,306	28,79,167	75,62,042	1,34,020	76,96,062	78,28,843
M.—Plantations	51,844	13,908	65,752	18,617	12,595	31,212	70,461	26,503	96,964	2,72,043
O.—Miscellaneous	85,509	1,844	87,353	47,178	1,940	49,118	1,32,687	3,784	1,36,471	1,86,777
P.—Maintenance	1,85,493	10,660	1,96,153	1,46,508	18,299	1,64,807	3,32,001	28,959	3,60,960	3,22,089
TOTAL	1,04,32,427	2,55,318	1,06,87,745	58,04,399	2,08,410	60,12,809	1,62,36,826	4,63,728	1,67,00,554	1,83,71,799
(III). Distributaries—										
A.—Preliminary Expenses	14,178	6,146	20,324	19,394	5,787	25,181	33,572	11,933	45,505	...
B.—Land	49,389	4,500	53,889	5,997	2,329	8,326	55,386	6,829	62,215	...
C.—Works	2,96,657	1,17,238	4,13,895	59,602	75,988	1,34,590	3,55,259	1,93,226	5,48,485	...
L.—Earth-work	3,06,135	1,22,864	4,28,999	63,284	1,23,991	1,87,275	3,69,419	2,46,855	6,16,274	...
O.—Miscellaneous	549	2,171	2,720	2	466	468	551	2,637	3,188	...
TOTAL	6,66,908	2,52,919	9,19,827	1,47,279	2,08,561	3,55,840	8,14,187	4,61,480	12,75,667	37,95,000
(IV). Drainage and Protective Works—										
A.—Preliminary Expenses	21,592	...	21,592	16	...	16	21,608	...	21,608	648
B.—Land	41,508	−3,437	38,071	44,409	−1,718	42,691	85,917	−5,155	80,762	15,500
L.—Earth-work	5,53,513	...	5,53,513	4,00,863	...	4,00,863	9,54,376	...	9,54,376	6,87,561
P.—Maintenance	2,334	397	2,731	1,168	198	1,366	3,502	595	4,097	5,980
TOTAL	6,18,947	−3,040	6,15,907	4,46,456	−1,520	4,44,936	10,65,403	−4,560	10,60,843	7,09,589
TOTAL I.—WORKS	1,24,67,912	5,05,930	1,29,73,842	67,72,945	4,15,722	71,88,667	1,92,40,857	9,21,652	2,01,62,509	2,39,38,316
II.—ESTABLISHMENT.										
[illegible]	7,64,912	23,825	7,88,737	4,16,728	20,781	4,37,509	11,81,640	44,606	12,26,246	11,96,914
[illegible]	24,72,929	1,41,274	26,14,203	15,24,482	85,761	16,10,243	39,97,411	2,27,035	42,24,446	} 44,53,326
[illegible]	96,976	2,596	99,572	53,371	2,220	55,591	1,50,347	4,816	1,55,163	}
[illegible]	2,83,784	...	2,83,784	1,52,410	...	1,52,410	4,36,194	...	4,36,194	3,34,544
Leave and Pension Allowances	...	...	...	4,44,397	15,227	4,59,624	4,44,397	15,227	4,59,624	...
TOTAL	36,18,601	1,67,695	37,86,296	25,91,388	1,23,989	27,15,377	62,09,989	2,91,684	65,01,673	59,84,784
III.—TOOLS AND PLANT.										
[illegible]	22,207	3,516	25,723	10,948	988	11,936	33,155	4,504	37,659	1,00,000
[illegible]	12,28,691	−14,436	12,14,255	6,12,951	−7,218	6,05,733	18,41,642	−21,654	18,19,988	18,53,658
[illegible]	6,09,321	−7,129	6,02,192	3,22,529	−2,073	3,20,456	9,31,850	−9,202	9,22,648	13,01,297
[illegible]	5,82,707	8,097	5,90,804	2,91,668	4,226	2,95,894	8,74,375	12,323	8,86,698	8,37,694
[illegible]	...	...	...	10,568	...	10,568	10,568	...	10,568	...
TOTAL	24,42,926	−9,952	24,32,974	12,48,664	−4,077	12,44,587	36,91,590	−14,029	36,77,561	40,92,649
IV.—SUSPENSE ACCOUNT.										
[illegible]	3,44,813	−7,546	3,37,267	1,43,652	−22,316	1,21,336	4,88,465	−29,862	4,58,603	...
[illegible]	−753	−8,939	−9,692	...	151	151	−753	−8,788	−9,541	...
[illegible]	30,441	−26,986	3,455	555	741	1,296	30,996	−26,245	4,751	...
TOTAL	3,74,501	−43,471	3,31,030	1,44,207	−21,424	1,22,783	5,18,708	−64,895	4,53,813	...
GRAND TOTAL	1,89,03,840	6,20,202	1,95,24,142	1,07,57,304	5,14,210	1,12,71,414	2,96,61,144	11,34,412	3,07,95,556	3,40,15,748
V.—LESS RECEIPTS ON CAPITAL ACCOUNT	1,09,466	286	1,09,752	60,397	625	61,022	1,69,863	911	1,70,774	5,49,628
NET TOTAL	1,87,94,374	6,19,916	1,94,14,390	1,06,96,907	5,13,585	1,12,10,392	2,94,91,281	11,33,501	3,06,24,782	3,34,66,120

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT. PUNJAB PROVINCE.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

SWAT RIVER CANAL PROJECT.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1884-85.

HEADS OF ACCOUNT.	Direct Charges.			Estimated cost of construction.
	Previous.	1884-85.	Total.	
I.—WORKS.				
(1). Head Works—				
K.—Buildings	2,817	...	2,817	...
Total ...	2,817	...	2,817	...
(2).—Main Canal and Branches—				
A.—Preliminary Expenses	1,133	10	1,143	1,253
B.—Land	6,834	—1,215	5,619	7,636
D.—Regulators	1,54,479	22,034	1,76,513	1,51,399
F.—River and Hill Torrent Works ...	7,11,990	868	7,12,858	7,18,842
F 1.—Other Cross Drainage Works ...	...	17,456	17,456	...
G.—Bridges	26,165	277	26,442	22,762
H.—Escapes	4,461	9,258	13,719	10,000
K.—Buildings	49,919	14,000	63,919	54,511
L.—Earth-work	9,10,249	13,218	9,23,467	9,09,266
M.—Plantations	2,067	2,064	4,131	25,450
O.—Miscellaneous	24,528	1,017	25,545	1,70,129
P.—Maintenance	8,916	20,484	29,400	27,336
Total ...	19,00,741	99,471	20,00,212	20,98,584
(3). Distributaries—				
A.—Preliminary Expenses	16,246	1,642	17,888	
B.—Land	3,521	71	3,592	
C.—Works	66,704	90,204	1,56,908	
L.—Earth-work	1,36,216	51,097	1,87,313	
O.—Miscellaneous	399	657	1,056	
Total ...	2,23,086	1,43,671	3,66,757	5,25,548
Total I.—WORKS ...	21,26,644	2,43,142	23,69,786	26,24,132
II.—ESTABLISHMENT.				
(5). Direction	1,08,830	12,214	1,21,044	
(6). Executive	3,04,796	46,499	3,51,295	
(7). Medical	6,610	1,109	7,719	
(8). Special Survey	66,066	...	66,066	
Total ...	4,86,302	59,822	5,46,124	7,63,753
III.—TOOLS AND PLANT.				
(12). Miscellaneuos	*70,643*	—2,872	67,771	
(13). Repairs and Carriage	23,184	5,987	29,171	
Total ...	93,827	3,115	96,942	1,57,925
IV.—SUSPENSE ACCOUNTS.				
(14). Stock	11,654	8,850	20,504	
(15). Stock Purchases and Sales	120	—99	21	
(16). Miscellaneous Advances	3,239	—76	3,163	
Total ...	15,013	8,675	23,688	
GRAND TOTAL ...	27,21,786	3,14,754	30,36,540	35,45,810
V.—LESS RECEIPTS ON CAPITAL ACCOUNT	3,942	577	4,519	...
Net Total ...	27,17,844	3,14,177	30,32,021	35,45,810

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT. PUNJAB PROVINCE.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

UPPER SUTLEJ INUNDATION CANAL PROJECT.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1884-85.

HEADS OF ACCOUNT.	Direct Charges. Previous.	1884-85.	Total.	Estimated cost of construction.
I.—WORKS.				
(2). Main Canal and Branches—				
B.—Land	29,386	...	29,386	29,386
D.—Regulators	8,795	...	8,795	8,795
G.—Bridges	28,973	...	28,973	28,973
K.—Buildings	32,166	...	32,166	32,166
L.—Earth-work	2,42,592	...	2,42,592	2,42,592
O.—Miscellaneous	4,987	...	4,987	4,987
Total ...	3,46,899	...	3,46,899	3,46,899
(3). Distributaries—				
B.—Land	5,746	...	5,746	5,746
C.—Works	10,147	...	10,147	10,147
L.—Earth-work	65,181	...	65,181	65,181
O.—Miscellaneous	12,707	...	12,707	12,707
P.—Maintenance	4,549	...	4,549	4,549
Total ...	98,330	...	98,330	98,330
Total I.—WORKS ...	4,45,229	...	4,45,229	4,45,229
II.—ESTABLISHMENT.				
(5). Direction	11,797	...	11,797	11,797
(6). Executive	50,900	...	50,900	50,900
(7). Medical	107	...	107	107
Total ...	62,804	...	62,804	62,804
III.—TOOLS AND PLANT.				
(12). Miscellaneous	13,150	...	13,150	13,150
Total ...	13,150	...	13,150	13,150
IV.—SUSPENSE ACCOUNTS.				
(14). Stock	1,070	−1,070	...	1,564
(16). Miscellaneous Advances	71	−71	...	570
Total ...	1,141	−1,141	...	2,134
GRAND TOTAL ...	5,22,324	−1,141	5,21,183	5,23,317
V.—LESS RECEIPTS ON CAPITAL ACCOUNT ...	80	...	80	...
Net Total ...	5,22,244	−1,141	5,21,103	5,23,317

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

LOWER SUTLEJ AND CHENAB INUNDN. CANAL PROJECT.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1884-85.

HEADS OF ACCOUNT.	Direct Charges.			Estimated cost of construction.
	Previous.	1884-85.	Total.	
I.—WORKS.				
(2).—Main Canal and Branches—				
D.—Regulators	1,416	...	1,416	1,416
G.—Bridges	19,737	...	19,737	19,737
K.—Buildings	36,815	...	36,815	36,815
L.—Earth-work	33,122	...	33,122	33,122
M.—Plantations	43	...	43	43
O.—Miscellaneous	4,968	...	4,968	4,968
Total ...	96,101	...	96,101	96,101
Total I.—WORKS ...	96,101	...	96,101	96,101
II.—ESTABLISHMENT.				
(5). Direction	2,554	...	2,554	2,554
(6). Executive	8,282	...	8,282	8,282
Total ...	10,836	...	10,836	10,836
III.—TOOLS AND PLANT.				
(12). Miscellaneous	625	...	625	625
Total ...	625	...	625	625
IV.—SUSPENSE ACCOUNTS.				
(16). Miscellaneous Advances	849	164	1,013	
Total ...	849	164	1,013	1,993
GRAND TOTAL ...	1,08,411	164	1,08,575	1,09,555
V.—LESS RECEIPTS ON CAPITAL ACCOUNT	1	...	1	
Net Total ...	1,08,410	164	1,08,574	1,09,555

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

INDUS INUNDATION CANALS PROJECT.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1884-85.

HEADS OF ACCOUNT.	Direct Charges. Previous.	1884-85.	Total.	Estimated cost of construction.
I.—WORKS.				
(2).—Main Canals and Branches—				
D.—Regulators ...	17,610	...	17,610	17,610
F.—River and Hill Torrent Works ...	402	...	402	402
G.—Bridges ...	3,891	...	3,891	3,891
H.—Escapes ...	3,640	...	3,640	3,640
K.—Buildings ...	7,387	...	7,387	7,387
L.—Earth-work ...	2,85,251	...	2,85,251	2,85,251
O.—Miscellaneous ...	776	...	776	776
Total ...	3,18,957	...	3,18,957	3,18,957
(4). Drainage and Protective Works—				
K.—Buildings ...	1,613	...	1,613	1,613
L.—Earth-Work ...	3,43,078	...	3,43,078	3,43,078
Total ...	3,44,691	...	3,44,691	3,44,691
Total I.—WORKS ...	6,63,648	...	6,63,648	6,63,648
II.—ESTABLISHMENT.				
(5). Direction ...	29,010	...	29,010	23,443
(6). Executive ...	57,627	...	57,627	57,627
(7). Medical ...	567	...	567	567
Total ...	87,204	...	87,204	81,637
III.—TOOLS AND PLANT.				
(12). Miscellaneous ...	670	...	670	670
Total ...	670	...	670	670
IV.—SUSPENSE ACCOUNTS.				
(14). Stock ...	81	−81		
Total ...	81	−81	...	9,897
GRAND TOTAL ...	7,51,603	−81	7,51,522	7,55,852
V.—LESS RECEIPTS ON CAPITAL ACCOUNT ...	63,616	...	63,616	63,616
Net Total ...	6,87,987	−81	6,87,906	6,92,236

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

SHAHPUR CANAL PROJECT.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1884-85.

HEADS OF ACCOUNT.	Direct Charges. Previous.	1884-85.	Total.	Estimated cost of construction.
I.—WORKS.				
(2). Main Canal and Branches—				
L.—Earth-work	37,640	...	37,640	...
Total ...	37,640	...	37,640	...
Total I.—WORKS ...	37,640	...	37,640	[illegible]
II.—ESTABLISHMENT.				
(5). Direction	1,228	...	1,228	...
Total ...	1,228	...	1,228	[illegible]
GRAND TOTAL ...	38,868	...	38,868	[illegible]
V.—LESS RECEIPTS ON CAPITAL ACCOUNT ...	...	...	...	...
Net Total ...	38,868	...	38,868	[illegible]

MADHOPUR WORKSHOPS PROJECT.

HEADS OF ACCOUNT.	Previous.	1884-85.	Total.	Estimated cost of construction.
I.—WORKS.				
(1). Head Works—				
C.—Works	24,416	...	24,416	[illegible]
K.—Buildings	2,24,203	...	2,24,203	[illegible]
P.—Maintenance...	7,285	...	7,285	[illegible]
Total ...	2,55,904	...	2,55,904	[illegible]
Total I.—WORKS ...	2,55,904	...	2,55,904	[illegible]
III.—TOOLS AND PLANT.				
(12). Miscellaneous	4,13,293	...	4,13,293	[illegible]
Total ...	4,13,293	...	4,13,293	[illegible]
GRAND TOTAL ...	6,69,197	...	6,69,197	[illegible]
V.—LESS RECEIPTS ON CAPITAL ACCOUNT ...	2,08,963	3,059	2,12,022	[illegible]
Net Total ...	4,60,234	—3,059	4,57,175	[illegible]

PUBLIC WORKS DEPARTMENT.

INISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

ABDUL RAHMAN KHAN'S CANAL PROJECT.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1884-85.

HEADS OF ACCOUNT.	Direct Charges.			Estimated cost of construction.
	Previous.	1884-85.	Total.	
I.—WORKS.				
AL AND BRANCHES—				
h-work	33,338	...	33,338	33,338
TOTAL ...	33,338	...	33,338	33,338
TOTAL I.—WORKS ...	33,338	...	33,338	33,338
II.—ESTABLISHMENT.				
ON	1,757	...	1,757	1,757
TOTAL ...	1,757	...	1,757	1,757
GRAND TOTAL ...	35,095	...	35,095	35,095
S RECEIPTS ON CAPITAL ACCOUNT ...	...	...	...	...
NET TOTAL ...	35,095	...	35,095	35,095

T. MOSS,
Examiner of P. W. Accounts, Punjab

Public Works Department, Punjab,

IRRIGATION BRANCH.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 3.

REVENUE ACCOUNTS.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

WESTERN JUMNA CANAL PROJECT.

No. 3.—REVENUE ACCOUNT FOR AND TO THE END OF 1884-85.

Receipts.	Total. Previous.	Total. 1884-85.	Total. Total.
	Rs.	Rs.	Rs.
Water-rates from Irrigation ...	...	11,84,238	...
Owner's rates on irrigated land ...	...	3,56,595	...
Sales of water	...	9,577	...
Supply of towns	...	1,646	...
Receipts from Plantations ...	...	17,112	...
Receipts from other Canal produce	...	2,898	...
Water-power	...	10,114	...
Carried over ...	...	15,82,180	...

Charges.	Total. Previous.	Total. 1884-85.	Total. Total.
	Rs.	Rs.	Rs.
(I A).—EXTENSIONS AND IMPROVEMENTS.			
(1).—HEAD WORKS—	28,472		31,593
B.—Land		...	
C.—Works		3,121	
K.—Buildings		...	
O.—Miscellaneous		...	
(2).—MAIN CANAL & BRANCHES—	1,06,860		1,25,808
B.—Land		...	
D.—Regulators		...	
E.—Falls and Weirs ...		...	
F.—River and Hill Torrent Works		...	
F. 1.—Other Cross Drainage Works		...	
G.—Bridges		4,851	
H.—Escapes		...	
I.—Navigation Works ...		...	
J.—Mills		1,641	
K.—Buildings		1,989	
L.—Earth-work		11,067	
M.—Plantations		...	
N.—Tanks and Reservoirs ...		...	
O.—Miscellaneous		...	
(3).—DISTRIBUTARIES—	39,614		41,056
B.—Land		...	
C.—Works		823	
L.—Earth-work		542	
O.—Miscellaneous		77	
(4).—DRAINAGE AND PROTECTIVE WORKS—	12,785		12,785
B.—Land		...	
C.—Works		...	
L.—Earth-work		...	
O.—Miscellaneous		...	
TOTAL ...	1,87,731	23,511	2,11 242
(I B).—MAINTENANCE AND REPAIRS.			
(1).—HEAD WORKS—	4,92,720		5,38,237
C.—Works		45,278	
K.—Buildings		239	
O.—Miscellaneous		...	
(2).—MAIN CANAL & BRANCHES—	13,21,729		13,99,060
C.—Works		14,783	
I.—Navigation Works ...		...	
J.—Mills		863	
K.—Buildings		12,019	
L.—Earth-work		43,085	
M.—Plantations		6,634	
N.—Tanks and Reservoirs ...		...	
O.—Miscellaneous		937	
Carried over ...	18,14,449	1,22,838	1[illegible]

Receipts.	Total. Previous.	Total. 1884-85.	Total. Total.
	Rs.	Rs.	Rs.
Brought forward ...	...	15,82,180	...
...gation receipts ...	...	12,849	...
...ts of Buildings ...	...	1,301	...
...ines ...	...	1,753	...
Miscellaneous and other receipts ...	...	4,289	...
TOTAL ...	2,91,96,883	16,02,372	3,07,99,255
Share of Land Revenue collected in the Civil Department ...	1,70,67,457	58,325	1,71,25,782
Do. adjustment on account of previous year ...	...	..	...
TOTAL LAND REVENUE ...	1,70,67,457	58,325	1,71,25,782
TOTAL RECEIPTS ...	4,62,64,340	16,60,697	4,79,25,037

Charges.	Total. Previous.	Total. 1884-85.	Total. Total.
	Rs.	Rs.	Rs.
Brought forward ...	18,14,449	1,22,838	19,37,287
(3).—DISTRIBUTARY CHANNELS—			
C.—Works	4,32,243	3,670	4,57,458
L.—Earth-work		20,633	
O.—Miscellaneous		912	
(4).—DRAINAGE WORKS—			
C.—Works	56,137	761	59,209
L.—Earth-work		2,267	
O.—Miscellaneous		44	
Total ...	23,02,829	1,51,125	24,53,954
(I C).—COMPENSATION ...	39,502	3,292	42,794
II.—ESTABLISHMENT.			
(5).—DIRECTION & ACCOUNT ...	8,82,289	26,360	9,08,649
(6).—EXECUTIVE AND MEDICAL ESTABLISHMENT... ...	19,28,179	1,15,222	20,43,401
(7 A).—REVENUE ESTABLISHMENT	16,53,051	* 1,12,895	17,65,946
(7 B).—NAVIGATION ESTABLISHMENT	696	...	696
(7 C).—PLANTATIONS	790	...	790
(7 D).—MILLS AND MACHINERY ...	1,123	...	1,123
TOTAL ...	44,66,128	2,54,477	47,20,605
III.—TOOLS AND PLANT.			
(9).—NAVIGATION PLANT ..	1,910	...	1,910
(10).—MILL PLANT	...	...	...
(11).—RAILWAY PLANT AND ROLLING-STOCK ...	...	...	...
(12).—MISCELLANEOUS ...	62,328	1,941	64,269
(13).—REPAIRS AND CARRIAGE ...	15,493	1,267	16,760
TOTAL ...	79,731	3,208	82,939
IV.—REFUNDS OF REVENUE ...	5,169	6,157	11,326
V.—PROFIT AND LOSS ...	875	...	875
GENERAL WORKS TO END OF 1863-64	48,92,523	...	48,92,523
TOTAL ...	1,19,74,488	4,41,770	1,24,16,258
Share of Collection charges in the Civil Department ...	...	...	...
Indirect charges debitable to Revenue Account as per Account No. 5 ...	10,11,150	35,652	10,46,802
TOTAL CHARGES ...	1,29,85,638	4,77,422	1,34,63,060
Balance, Net Revenue ...	3,32,78,702	11,83,275	3,44,61,977
GRAND TOTAL ...	4,62,64,340	16,60,697	4,79,25,037

* Includes Rs. 46,801 on account of fees for collection of Revenue

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

BARI DOAB CANAL PROJECT.

No. 3.—REVENUE ACCOUNT FOR AND TO THE END OF 1884-85.

Receipts.	Total. Previous.	Total. 1884-85.	Total. Total.	Charges.	Total. Previous.	Total. 1884-85.	Total. Total.
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
Water-rates from Irrigation ...	1,42,05,196	9,39,181	1,51,44,377	(IA).—EXTENSIONS AND IMPROVEMENTS.			
				(1).—HEAD WORKS—			
				B.—Land	84,926	...	88,488
				C.—Works		...	
				K.—Buildings		3,562	
				O.—Miscellaneous		...	
Owner's rates on irrigated land ...	...	...	...	(2).—MAIN CANAL & BRANCHES—			
				B.—Land	1,60,811	5	1,70,297
				D.—Regulators		...	
				E.—Falls and Weirs ...		563	
				F.—River and Hill Torrent Works		...	
Sales of water ...	1,46,970	14,580	1,61,550	*F I.*—Other Cross Drainage Works		...	
				G.—Bridges		429	
				H.—Escapes		...	
				I.—Navigation Works ...		...	
				J.—Mills		3,442	
				K.—Buildings		5,047	
				L.—Earth-work		...	
				M.—Plantations		...	
				N.—Tanks and Reservoirs ...		...	
				O.—Miscellaneous		...	
Supply of towns ...	...	...	...	(3).—DISTRIBUTARIES—			
				B.—Land	39,587	134	45,648
				C.—Works		456	
				L.—Earth-work		..	
				O.—Miscellaneous		5,471	
Receipts from plantations ...	2,72,899	36,158	3,09,057	(4).—DRAINAGE AND PROTECTIVE WORKS.			
				B.—Land	11,673	...	11,742
				C.—Works		69	
				L.—Earth-work		...	
				O.—Miscellaneous		...	
				TOTAL ...	2,96,997	19,178	3,16,175
				(IB).—MAINTENANCE AND REPAIRS.			
Receipts from other canal produce	16,354	110	16,464	(1).—HEAD WORKS—			
				C.—Works	11,18,890	1,12,549	12,32,688
				K.—Buildings		885	
				O.—Miscellaneous		364	
Water-power	6,48,174	54,726	7,02,900	(2).—MAIN CANAL & BRANCHES—			
				C.—Works	22,26,937	55,711	23,21,969
				I.—Navigation Works ..		6	
				J.—Mills		3,925	
				K.—Buildings		8,031	
				L.—Earth-work		16,490	
				M.—Plantations		10,152	
				N.—Tanks and Reservoirs ..		...	
				O.—Miscellaneous		737	
Carried over ...	1,52,89,593	10,44,755	1,63,34,348	Carried over ...	33,45,827	2,08,830	35,54,657

REVENUE ACCOUNT, B. D. CANAL PROJECT—CONCLUDED.

Receipts.	Total. Previous.	Total. 1884-85.	Total. Total.
	Rs.	Rs.	Rs.
Brought forward ...	1,52,89,593	10,44,755	1,63,34,348
gation receipts ...	5,412	...	5,412
ts of Buildings ...		3,608	
nes	2,80,011	1,108	2,89,467
scellaneous and other receipts...		4,740	
Total ...	1,55,75,016	10,54,211	1,66,29,227
Share of Land Revenue collected in the Civil Department ...	55,71,263	2,73,606	58,46,829
Do. Adjustment of previous year.	...	1,960	
Total Land Revenue ...	55,71,263	2,75,566	58,46,829
TOTAL RECEIPTS ...	2,11,46,279	13,29,777	2,24,76,056

Charges.	Total. Previous.	Total. 1884-85.	Total. Total.
	Rs.	Rs.	Rs.
Brought forward ...	33,45,827	2,08,830	35,54,657
(3).—Distributary Channels— C.—Works ... L.—Earth-work ... O.—Miscellaneous ...	10,02,790	5,453 / 34,572 / 1,790	10,44,605
(4).—Drainage Works— C.—Works ... L.—Earth-work ... O.—Miscellaneous ...	36,707	87 / 155 / ...	36,949
Total ...	43,85,324	2,50,887	46,36,211
(I C).—COMPENSATION ...	21,997	205	22,202
II.—ESTABLISHMENT.			
(5).—Direction & Account ...	9,50,134	18,536	9,68,670
(6).—Executive	24,68,266	77,986	25,46,252
(7).—Medical Establishment ...	48,590	825	49,415
(7 A).—Revenue Establishment.	* 13,84,918	93,452	14,78,370
(7 B).—Navigation Establishment	...	...	...
(7 C).—Plantations	13,674	...	13,674
(8½).—Special Field Survey ...	52	...	52
Total ...	48,65,634	1,90,799	50,56,433
III.—TOOLS AND PLANT.			
(9).—Navigation Plant ...	...	...	...
(10).—Mill Plant	...	...	...
(11).—Railway Plant and Rolling-Stock			
(12).—Miscellaneous... ...	1,05,026	8,817	1,13,843
(13).—Repairs and Carriage ...	11,107	923	12,030
Total ...	1,16,133	9,740	1,25,873
IV.—REFUNDS OF REVENUE ...	28,973	2,086	31,059
V.—PROFIT AND LOSS ...	892	...	892
Total ...	97,15,950	4,72,895	1,01,88,845
Share of Collection charges in the Civil Department ...	...	...	...
Indirect charges debitable to Revenue Account as per Account No. 5 ...	9,70,143	26,712	9,96,855
Total Charges ...	1,06,86,093	4,99,607	1,11,85,700
Balance, Net Revenue	1,04,60,186	8,30,170	1,12,90,356
GRAND TOTAL ...	2,11,46,279	13,29,777	2,24,76,056

* Includes Rs. 38,927 an account of fees for collection of Revenue.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

SIRHIND CANAL PROJECT.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1884-85.

Receipts.	Imperial.			Contribution.			Total.		
	Previous.	1884-85.	Total.	Previous.	1884-85.	Total.	Previous.	1884-85.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Water-rates from Irrigation ...	...	17,504	17,504	...	...	...	...	17,504	17,504
Sales of water ...	...	930	930	...	...	...	...	930	930
Receipts from Plantations ...	...	4,740	4,740	...	1,816	1,816	...	6,556	6,556
Receipts from other Canal produce ...	...	2,587	2,587	...	838	838	...	3,425	3,425
Water-power ...	86	2,247	2,333	...	763	762	86	3,009	3,095
Navigation Receipts ...	133	1,157	1,290	67	649	716	200	1,806	2,006
Rent of Buildings ...	...	1,457	1,457	...	2,010	2,010	...	3,467	3,467
Fines ...	5	53	58	2	1	3	7	54	61
Miscellaneous and other Receipts ...	...	1,807	1,807	...	304	304	...	2,111	2,111
Total ...	224	32,482	32,706	69	6,380	6,449	293	38,862	39,155
TOTAL RECEIPTS ...	224	32,482	32,706	69	6,380	6,449	293	38,862	39,155

Charges.	Imperial.			Contribution.			Total.		
	Previous.	1884-85.	Total.	Previous.	1884-85.	Total.	Previous.	1884-85.	Total.
(I A).—EXTENSIONS & IMPROVEMENTS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
(1).—Head Works—									
K.—Buildings ...	...	2,412	2,412	...	1,206	1,206	...	3,618	3,618
(2).—Main Canal & Branches—									
F. (1).—Other Cross Drainage Works ...	...	22	22	...	11	11	...	33	33
G.—Bridges ...	...	366	366	...	139	139	...	505	505
I.—Navigation Works ...	5,581	...	5,581	...	...	...	5,581	...	5,581
J.—Mills ...	...	35,972	35,972	...	...	...	...	35,972	35,972
O.—Miscellaneous ...	...	1,120	1,120	...	437	437	...	1,557	1,557
Total ...	5,581	39,892	45,473	...	1,793	1,793	5,581	41,685	47,266
(I B).—MAINTENANCE AND REPAIRS.									
(1).—Head Works—									
C.—Works ...	167	1,399	1,566	84	699	783	251	2,098	2,349
K.—Buildings ...	...	533	533	...	267	267	...	800	800
(2).—Main Canal & Branches—									
C.—Works ...	...	8,037	8,037	...	5,776	5.776	...	13,813	13,813
I.—Navigation Works ...	...	3,325	3,325	...	1,983	1,983	...	5,308	5,308
K.—Buildings ...	...	3,929	3,929	...	1,577	1,577	...	5,506	5,506
L.—Earth-work ...	1,505	30,188	31,693	467	12,500	12,967	1,972	42,688	44,660
N.—Tanks and Reservoirs ...	...	345	345	...	...	...	...	345	345
O.—Miscellaneous ...	...	...	...	...	202	202	...	202	202
(3).—Distributaries—									
C.—Works ...	2,426	...	2,426	...	...	...	2,426	...	2,426
L.—Earth-work ...	...	16,402	16,402	...	...	...	...	16,402	16,402
(4).—Drainage Works—									
L.—Earth-work ...	...	492	492	...	246	246	...	738	738
Total ...	4,098	64,650	68,748	551	23,250	23,801	4,649	87,900	92,549
II.—ESTABLISHMENT.									
(5).—Direction ...	1,063	6,024	7,087	...	1,443	1,443	1,063	7,467	8,530
(6).—Executive ...	1,708	17,529	19,237	96	5,337	5,433	1,804	22,866	24,670
(7).—Medical ...	34	345	379	2	114	116	36	459	495
(7 A).—Revenue Establishment ...	4,040	* 10,432	14,472	1	...	1	4,041	10,432	14,473
(7 B).—Navigation Establishment ...	...	1,295	1,295	...	...	...	...	1,295	1,295
Leave and Pension Allowances ...	...	...	...	14	965	979	14	965	979
Total ...	6,845	35,625	42,470	113	7,859	7,972	6,958	43,484	50,442
III.—TOOLS AND PLANT.									
(12).—Miscellaneous ...	9	52	61	...	13	13	9	65	74
Total ...	9	52	61	...	13	13	9	65	74
IV.—REFUNDS OF REVENUE ...	...	4	4	...	2	2	...	6	6
Total ...	16,533	1,40,223	1,56,756	664	32,917	33,581	17,197	1,73,140	1,90,337
Indirect charges debitable to Revenue Account as per Account No. 5 ...	958	4,987	5,945	...	...	...	958	4,987	5,945
Total Charges ...	17,491	1,45,210	1,62,701	664	32,917	33,581	18,155	1,78,127	1,96,282
Balance, Net Revenue ...	-17,267	-1,12,728	-1,29,995	-595	-26,537	-27,132	-17,862	-1,39,265	-1,57,127
GRAND TOTAL ...	224	32,482	32,706	69	6,380	6,449	293	38,862	39,155

* Includes Rs. 492 on account of fees paid to Lambardárs and Patwáris.

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT. PUNJAB PROVINCE

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-58.

UPPER SUTLEJ INUNDATION CANALS PROJECT.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1884-85.

Receipts.	Total. Previous.	Total. 1884-85.	Total. Total.
	Rs.	Rs.	Rs.
Water-rates from Irrigation ...	7,39,901	11,872	7,51,773
Owner's rates on irrigated land ...	17,732	...	17,732
Receipts from plantations ...	26,878	998	27,876
Receipts from other canal produce	18,880	3,635	22,515
Carried over ...	8,03,391	16,505	8,19,896

Charges.	Total. Previous.	Total. 1884-85.	Total. Total.
	Rs.	Hs.	Rs.
(I A).—EXTENSIONS AND IMPROVEMENTS.			
(2).—MAIN CANAL & BRANCHES—			
B.—Land ... ... *D.*—Regulators ... ... *E.*—Falls and weirs ... *F.*—River and Hill Torrent Works ... ... *F I.*—Other Cross Drainage Works. *G.*—Bridges ... ... *H.*—Escapes ... ... *I.*—Navigation Works ... *J.*—Mills ... ... *K.*—Buildings ... ... *L.*—Earth-work ... ... *M.*—Plantations ... ... *N.*—Tanks and Reservoirs ... *O.*—Miscellaneous	70,480	...	70,480
(3).—DISTRIBUTARIES—			
B.—Land ... ... *C.*—Works ... ... *L.*—Earth-work ... ... *O.*—Miscellaneous	25,249	...	25,249
TOTAL ...	95,729	...	95,729
(I B).—MAINTENANCE AND REPAIRS.			
(1)—HEAD WORKS—			
C.—Works ... ... *K.*—Buildings ... ... *O.*—Miscellaneous	10,379	...	10,379
(2).—MAIN CANAL & BRANCHES—			
C.—Works ... *I.*—Navigation Works ... *J.*—Mills ... ... *K.*—Buildings ... ... *L.*—Earth-work ... ... *M.*—Plantations ... ... *N.*—Tanks and Reservoirs ... *O.*—Miscellaneous	10,56,992	1,153 ... ... 2,131 55,883 758 ... 611	11,17,528
Carried over ...	10,67,371	60,536	11,27,90

REVENUE ACCOUNT, U. S. INUNDN. CANALS PROJECT—CONCLUDED.

RECEIPTS.	TOTAL. Pervious.	TOTAL. 1884-85.	TOTAL. Total.
	Rs.	Rs.	Rs.
Brought forward ...	8,03,391	16,505	8,19,896
Navigation receipts	32	...	32
Rents of Buildings		288	
Fines	26,483	...	27,448
Miscellaneous and other receipts...		677	
Contributions	22,835	...	22,835
TOTAL ...	8,52,741	17,470	8,70,211
Share of Land Revenue collected in the Civil Department ...	15,36,247	81,322	16,17,556
Do. adjustment of previous years	...	—13	
TOTAL LAND REVENUE ...	15,36,247	81,309	16,17,556
TOTAL RECEIPTS ...	23,88,988	98,779	24,87,767

CHARGES.	TOTAL. Previous.	TOTAL. 1884-85.	TOTAL. Total.
	Rs.	Rs.	Rs.
Brought forward ...	10,67,371	60,536	11,27,907
(3).—DISTRIBUTARY CHANNELS—			
C.—Works	1,19,406	588	1,27,332
L.—Earth-work		7,279	
O.—Miscellaneous		59	
TOTAL ...	11,86,777	68,462	12,55,239
II.—ESTABLISHMENT.			
(5).—DIRECTION & ACCOUNT ...	2,43,628	4,725	2,48,353
(6).—EXECUTIVE	5,77,914	25,150	6,03,064
(7).—MEDICAL ESTABLISHMENT ...	8,986	748	9,734
(7 A).—REVENUE ESTABLISHMENT	1,01,625	*10,811	1,12,436
TOTAL ...	9,32,153	41,434	9,73,587
III.—TOOLS AND PLANT.			
(9).—NAVIGATION PLANT ...	548	...	548
(12).—MISCELLANEOUS ...	12,885	477	13,362
(13).—REPAIRS AND CARRIAGE ...	1,567	117	1,684
TOTAL ...	15,000	594	15,594
IV.—REFUNDS OF REVENUE ...	2,553	...	2,553
V.—PROFIT AND LOSS ...	379	...	379
TOTAL ...	22,32,591	1,10,490	23,43,081
Indirect charges debitable to Revenue Account as per Account No. 5	1,90,152	6,405	1,96,557
TOTAL CHARGES ...	24,22,743	1,16,895	25,39,638
Balance Net Revenue ...	—33,755	—18,116	—51,871
GRAND TOTAL ...	23,88,988	98,779	24,87,767

* Includes Rs. 277 on account of fees for collection of Revenue.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

LOWER SUTLEJ AND CHENAB INUNDN. CANAL PROJECT.

No. 3.—REVENUE ACCOUNT FOR AND TO THE END OF 1884-85.

RECEIPTS.	TOTAL. Previous.	1884-85.	Total.
	Rs.	Rs.	Rs.
Water-rates from Irrigation...	11,071	173	11,244
Receipts from plantations ...	54,227	5,390	59,617
Receipts from other canal produce	59,718	1,227	60,945
Rents of Buildings		127	
Fines	34,740	204	35,446
Miscellaneous & other receipts		375	
Contribution	7,92,067	1,24,525	9,16,592
Statute labor	28,51,390	1,94,231	30,45,621
Total ...	38,03,213	3,26,252	41,29,465
Share of Land Revenue collected in the Civil Department	62,61,462	3,18,035	65,79,497
Total Land Revenue ...	62,61,462	3,18,035	65,79,497
TOTAL RECEIPTS ...	1,00,64,675	6,44,287	1,07,08,962

CHARGES.	TOTAL. Previous.	1884-85.	Total.
(I A).—EXTENSIONS AND IMPROVEMENTS.	Rs.	Rs.	Rs.
(2).—MAIN CANAL & BRANCHES—			
B.—Land	1,44,887	...	1,60,888
D.—Regulators		7,655	
E.—Fall and Weirs		...	
F.—River and Hill Torrent Works...		...	
F I.—Other Cross Drainage Works...		...	
G.—Bridges		590	
H.—Escapes		...	
I.—Navigation Works		...	
J.—Mills		...	
K.—Buildings		7,477	
L.—Earth-work		...	
M.—Plantations		...	
N.—Tanks and Reservoirs ...		...	
O.—Miscellaneous		279	
TOTAL ...	1,44,887	16,001	1,60,888
(I B).—MAINTENANCE AND REPAIRS.			
(2).—MAIN CANAL & BRANCHES—			
C.—Works	8,44,099	733	9,72,169
I.—Navigation Works		...	
J.—Mills		...	
K.—Buildings		1,438	
L.—Earth-work		1,23,028	
M.—Plantations		1,348	
N.—Tanks and Reservoirs ...		...	
O.—Miscellaneous		1,523	
(3).—DISTRIBUTARY CHANNELS—			
C.—Works	616	...	616
L.—Earth-work			
O.—Miscellaneous			
(4).—DRAINAGE WORKS—			
C.—Works	1,051	...	1,051
L.—Earth-work			
O.—Miscellaneous			
TOTAL ...	8,45,766	1,28,070	9,73,836
(I C).—COMPENSATION.	200	...	200
II.—ESTABLISHMENT.			
(5).—DIRECTION & ACCOUNT ...	2,10,352	20,016	2,30,368
(6).—EXECUTIVE ...	8,39,923	43,850	8,83,773
(7).—MEDICAL ESTABLISHMENT ...	10,591	678	11,269
(7 A).—REVENUE ESTABLISHMENT ...	82,527	*9,011	91,538
TOTAL ...	11,43,393	73,555	12,16,948
III.—TOOLS AND PLANT.			
(12).—MISCELLANEOUS	6,943	221	7,164
(13).—REPAIRS AND CARRIAGE ...	1,023	161	1,184
TOTAL ...	7,966	382	8,348
IV.—REFUNDS OF REVENUE ...	70	100	170
V.—PROFIT AND LOSS	757	...	757
Statute labor	28,51,390	1,94,231	30,45,621
TOTAL ...	49,94,429	4,12,339	54,06,768
Indirect charges debitable to Revenue Account as per Account No. 5 ...	2,39,152	10,323	2,49,475
TOTAL CHARGES ...	52,33,581	4,22,662	56,56,243
Balance Net Revenue ...	48,31,094	2,21,625	50,52,719
GRAND TOTAL ...	1,00,64,675	6,44,287	1,07,08,962

* Includes Rs. 1,655 on account of fees.

IRRIGATION BRANCH. PUNJAB PROVINCE.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

INDUS INUNDATION CANALS PROJECT.

No. 3.—REVENUE ACCOUNT FOR AND TO THE END OF 1884-85.

RECEIPTS.	TOTAL. Previous.	1884-85.	Total.
	Rs.	Rs.	Rs.
Water-rates from Irrigation ...	109	...	109
Clearance rates	5,78,187	52,338	6,30,525
Receipts from Plantations ...	21,857	1,490	23,347
Receipts from other Canal produce	38,342	12,536	50,878
Rents of Buildings ...	... } 23,289	275	} 25,216
Fines		1,549	
Miscellaneous and other receipts...	...	103	
Contribution for silt-clearance ...	4,18,934	...	4,18,934
TOTAL ...	10,80,718	68,291	11,49,009
Share of Land Revenue collected in the Civil Department ...	32,60,658	1,59,728	34,20,386
TOTAL RECEIPTS ...	43,41,376	2,28,019	45,69,395

CHARGES.	TOTAL. Previous.	1884-85.	Total.
	Rs.	Rs.	Rs.
(I A).—EXTENSIONS AND IMPROVEMENTS.			
(2).—MAIN CANAL & BRANCHES.			
B.—Land	} 1,52,414	...	} 1,57,302
D.—Regulators		598	
E.—Falls and Weirs ...		...	
F.—River and Hill Torrent Works		...	
F. 1.—Other Cross Drainage Works		...	
G.—Bridges		1,488	
H.—Escapes		...	
I.—Navigation Works ...		...	
J.—Mills		...	
K.—Buildings		...	
L.—Earth-work		1,790	
M.—Plantations		...	
N.—Tanks and Reservoirs ...		...	
O.—Miscellaneous		1,612	
(4).—DRAINAGE AND PROTECTIVE WORKS.			
C.—Works	27,829	23,368	51,197
L.—Earth-work	4,267	7,157	11,424
TOTAL ...	1,84,510	35,413	2,19,923
(I B).—MAINTENANCE AND REPAIRS.			
(2).—MAIN CANAL & BRANCHES.			
C.—Works	} 23,24,486	1,407	} 24,28,057
I.—Navigation Works ...		...	
J.—Mills		...	
K.—Buildings		791	
L.—Earth-work		97,404	
M.—Plantations		8,347	
N.—Tanks and Reservoirs ...		...	
O.—Miscellaneous		622	
(3).—DISTRIBUTARY CHANNELS.			
C.—Works	} 60	...	60
L.—Earth-work			
O.—Miscellaneous			
(4).—DRAINAGE WORKS.			
C.—Works	} 2,05,036	10,089	} 2,31,292
L.—Earth-work		15,544	
O.—Miscellaneous		623	
TOTAL ...	25,29,582	1,29,827	26,59,409
(I C).—COMPENSATION.	1,962	..	1,962
II.—ESTABLISHMENT.			
(5).—DIRECTION & ACCOUNT ...	3,90,634	15,472	4,06 106
(6).—EXECUTIVE	7,44,844	49,296	7,94,140
(7).—MEDICAL ESTABLISHMENT ...	9,155	846	10,001
(7 A).—REVENUE ESTABLISHMENT	1,36,467	* 10,487	1,46954
(7 C).—PLANTATIONS ...	5,635	...	5635
TOTAL ...	12,86,735	76,101	13,62,836
III.—TOOLS AND PLANT.			
(12).—MISCELLANEOUS ...	18,232	419	18,651
(13).—REPAIRS AND CARRIAGE ...	3,254	118	3,372
TOTAL ...	21,486	537	22,023
IV.—REFUNDS OF REVENUE ...	77	41	118
V.—PROFIT AND LOSS ...	708	...	708
TOTAL ...	40,25,060	2,41,919	42,66,979
Indirect charges debitable to Revenue Account as per Account No. 5 ...	2,64,084	10,654	2,74,738
TOTAL CHARGES ...	42,89,144	2,52,573	45,41,717
Balance, Net Revenue ...	52,232	−24.554	27,678
GRAND TOTAL ...	43,41,376	2,28,019	45,69,395

* Includes Rs. 391 on account of fees for collection of revenue.

IRRIGATION BRANCH. PUNJAB PROVINCE.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

MUZAFFARGARH CANALS PROJECT.

No. 3.—REVENUE ACCOUNT FOR AND TO THE END OF 1884-85.

Receipts.	Total. Previous.	Total. 1884-85.	Total. Total.
	Rs.	Rs.	Rs.
Water-rates from Irrigation ...	62	...	62
Miscellaneous and other receipts ...	265	62	327
Contributions	50,927	36,913	87,840
Statute labor	3,68,600	92,150	4,60,750
Total ...	4,19,854	1,29,125	5,48,979
Share of Land Revenue collected in the Civil Department ...	9,46,777	2,40,660	11,87,437
Total Receipts ...	13,66,631	3,69,785	17,36,416

Charges.	Total. Previous.	Total. 1884-85.	Total. Total.
	Rs.	Rs.	Rs.
(IA).—EXTENSIONS AND IMPROVEMENTS.			
(2).—Main Canal & Branches.			
D.—Regulators	56	2,865	2,921
O.—Miscellaneous	...	8,843	8,843
(4).—Drainage and Protective Works.			
L.—Earth-work	...	4,718	4,718
O.—Miscellaneous	2,857	...	2,857
Total ...	2,913	16,426	19,339
(IB).—MAINTENANCE AND REPAIRS.			
(2).—Main Canal & Branches.			
C.—Works	970	11	981
K.—Buildings	162	...	162
L.—Earth-work	38,751	21,113	59,864
M.—Plantations	1,076	355	1,431
O.—Miscellaneous	15,611	407	16,018
(3).—Distributary Channels.			
O.—Miscellaneous	171	...	171
(4).—Drainage Works.			
C.—Works	...	7	7
L.—Earth-work	5,313	2,929	8,242
O.—Miscellaneous	631	...	631
Total ...	62,685	24,822	87,507
(I C).—COMPENSATION ...	...	224	224
II.—ESTABLISHMENT.			
(5).—Direction & Account ...	41,650	9,055	50,705
(6).—Executive	78,272	23,486	1,01,758
(7 A).—Revenue Establishment	49,254	14,496	63,705
Total ...	1,69,176	47,037	2,16,213
III.—TOOLS AND PLANT.			
(12).—Miscellaneous ...	1,790	1,143	2,933
(13).—Repairs and Carriage ...	124	218	342
Total ...	1,914	1,361	3,275
Miscellaneous Advances...	208	— 208	...
IV.—REFUNDS OF REVENUE.	4	...	4
V.—Profit and Loss ... Statute Labor ...	3,68,600	92,150	4,60,750
Total ...	6,05,500	1,81,812	7,87,312
Indirect charges debitable to Revenue Account as per Account No. 5 ...	28,469	6,585	35,054
Total Charges ...	6,33,969	1,88,397	8,22,366
Balance, Net Revenue ...	7,32,662	1,81,388	9,14,050
GRAND TOTAL ...	13,66,631	3,69,785	17,36,416

IRRIGATION BRANCH. PUNJAB PROVINCE.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

SHAHPUR CANALS PROJECT.

No. 3.—REVENUE ACCOUNT FOR AND TO THE END OF 1884-85.

Receipts.	Total. Previous.	Total. 1884-85.	Total. Total.	Charges.	Total. Previous.	Total. 1884-85.	Total. Total.
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
Water-rates from Irrigation ...	1,64,489	16,332	1,80,821	(I B).—MAINTENANCE AND REPAIRS.			
				(2).—MAIN CANAL & BRANCHES.			
				C.—Works ... I.—Navigation Works ... J.—Mills ... K.—Buildings ... L.—Earth-work ... M.—Plantations ... N.—Tanks and Reservoirs ... O.—Miscellaneous ...	82,988	9,004	91,992
Receipts from other canal produce	...	14	14	TOTAL ...	82,988	9,004	91,992
				II.—ESTABLISHMENT.			
				(5).—DIRECTION AND ACCOUNT...	7,665	437	8,102
				(7 A).—REVENUE ESTABLISHMENT	1,513	*767	2,280
				TOTAL ...	9,178	1,204	10,382
Navigation receipts	...	170	170				
				III.—TOOLS AND PLANT.			
				(12).—MISCELLANEOUS ...	13	2	15
				TOTAL ...	13	2	15
				IV.—REFUNDS OF REVENUE...	...	470	470
TOTAL ...	1,64,489	16,516	1,81,005	TOTAL ...	92,179	10,680	1,02,859
				Indirect charges debitable to Revenue Account as per Account No. 5	1,811	169	1,980
				TOTAL CHARGES ...	93,990	10,849	1,04,839
				Balance, Net Revenue ...	70,499	5,667	76,166
TOTAL RECEIPTS ...	1,64,489	16,516	1,81,005	GRAND TOTAL ...	1,64,489	16,516	1,81,005

* Lambardárs' and Patwáris' fees for collection of revenue.

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT. PUNJAB PROVINCE.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

MADHOPUR WORKSHOPS PROJECT.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1884-85.

Receipts.	Total. Previous.	Total. 1884-85.	Total. Total.	Charges.	Total. Previous.	Total. 1884-85.	Total. Total.
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
				(I B).—MAINTENANCE AND REPAIRS.			
				(1)—Head Works—			
				K.—Buildings	4,609	...	4,609
				Total ...	4,609	...	4,609
				(I C).—COMPENSATION.			
				II.—Establishment—			
				(5).—Direction and Account...	987	...	987
Fines	36,584	...	36,584	(6).—Executive Establishment	71,891	...	71,891
				Total ...	72,878	...	72,878
				III.—TOOLS AND PLANT.			
				(12).—Miscellaneous ...	1,19,244	...	1,19,244
				Total ...	1,19,244	...	1,19,244
				IV.—REFUNDS OF REVENUE.			
				V.—Profit and Loss	2,35,417	...	2,35,417
				Total ...	4,32,148	...	4,32,148
				Indirect charges debitable to Revenue Account as per Account No. 5 ...	17,308	...	17,308
				Total Charges ...	4,49,456	...	4,49,456
				Balance Net Revenue ...	−4,12,872	...	−4,12,872
				Grand Total ...	36,584	...	36,584
Total Receipts ...	36,584	...	36,584				

T. MOSS,

Examiner, Public Works Accounts, Punjab.

Public Works Department, Punjab,

IRRIGATION BRANCH.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

Nos. 4 & 5.

INTEREST ACCOUNT & INDIRECT CHARGES.

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT. PUNJAB PROVINCE.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85

WESTERN JUMNA CANAL PROJECT.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1884-85.

	Amount.		Amount.
	Rs.		Rs.
Total interest charges to end of 1883-84 ...	61,76,621	Net revenue realized to end of 1883-84...	3,32,78,702
Ditto Ditto for the year 1884-85	3,74,314	Net revenue during 1884-85	11,83,275
Total ...	65,50,935		
Balance Revenue after defraying interest Charges	2,79,11,042		
Total ...	3,44,61,977	Total ...	3,44,61,977

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1884-85.

Particulars.	Previous.	1884-85.	Total.
Capital.	Rs.	Rs.	Rs.
Capitalization of abatement of land revenue	73,694	6,114	79,808
Loss by exchange	...	...	...
Leave and pension allowances	4,03,310	14,685	4,17,995
Total ...	4,77,004	20,799	4,97,803
Revenue.			
Capitalization of abatement of land revenue	349	25	374
Loss by exchange	...	...	...
Leave and pension allowances	10,10,801	35,627	10,46,428
Total ...	10,11,150	35,652	10,46,802
Grand Total ...	14,88,154	56,451	15,44,605

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT. PUNJAB PROVINCE.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

BARI DOAB CANAL PROJECT.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1884-85.

	Amount.		Amount.
	Rs.		Rs.
Total interest charges to end of 1883-84 ...	1,57,89,086	Net revenue realized to end of 1883-84 ...	1,04,60,186
Ditto ditto for the year 1884-85 ...	6,08,136	Net revenue during 1884-85 ...	8,30,170
		Balance net interest charges ...	51,06,866
Total ...	1,63,97,222	Total ...	1,63,97,222

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1884-85.

Particulars.	Previous.	1884-85.	Total.
	Rs.	Rs.	Rs.
CAPITAL.			
Capitalization of abatement of land revenue	11,705	571	11,142
Deduct capitalized value of revenue assessed on land restored to zemindars on Sirkian Rajbaha (Rs. 47), *vide* Joint Secretary's No. 3043 I, dated 18th June 1885	...	−1,134	
Loss by exchange	...	...	...
Leave and pension allowances	6,04,204	6,832	6,11,036
Total	6,15,909	6,269	6,22,178
REVENUE.			
Capitalization of abatement of land revenue	25	...	25
Loss by exchange	...	...	...
Leave and pension allowances	9,70,118	26,712	9,96,830
Total	9,70,143	26,712	9,96,855
GRAND TOTAL ...	15,86,052	32,981	16,19,033

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

CHENAB CANAL PROJECT.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1884-85.

	Amount.		Amount.
	Rs.		Rs.
Total interest charges to end of 1883-84 ...	6,041	Net revenue realized to end of 1883-84 ...	...
„ „ for the year 1884-85	21,613	„ during 1884-85	...
		Balance net interest charges	27,654
Total ...	27,654	Total ...	27,654

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1884-85.

Particulars.	Previous.	1884-85.	Total.
	Rs.	Rs.	Rs.
Capital.			
Capitalization of abatement of land revenue	17,809	5,419	23,228
Loss by exchange	...	...	...
Leave and pension allowances	7,060	9,732	16,792
Total ...	24,869	15,151	40,020
Revenue.			
Capitalization of abatement of land revenue	...	...	...
Loss by exchange	...	...	...
Leave and pension allowances	...	...	...
Total ...	...	...	...
Grand Total ...	24,869	15,151	40,020

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

LOWER SOHAG AND PARA CANAL PROJECT.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1884-85.

	Amount.		Amount.
	Rs.		Rs.
Total interest charges to end of 1883-84 ...	2,000	Net revenue realized to end of 1883-84 ...	...
" " " for the year 1884-85	7,214	" during 1884-85 ...	...
		Balance net interest charges ...	9,214
Total ...	9,214	Total ...	9,214

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1884-85.

Particulars.	Previous.	1884-85.	Total.
	Rs.	Rs.	Rs.
CAPITAL—			
Capitalization of abatement of land revenue	...	...	...
Loss by exchange...	...	...	...
Leave and pension allowances	4,756	4,716	9,472
Total ...	4,756	4,716	9,472
REVENUE—			
Capitalization of abatement of land revenue	...	...	...
Loss by exchange...	...	...	...
Leave and pension allowances	...	...	...
Total ...	...	...	...
GRAND TOTAL ...	4,756	4,716	9,472

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT. PUNJAB PROVINCE.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

SIDHNAI CANAL PROJECT.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1884-85.

	Amount.		Amount.
	Rs.		Rs.
Total interest charges to end of 1883-84 ...	2,128	Net revenue realized to end of 1883-84...	...
Ditto Ditto for the year 1884-85	8,677	Net revenue during 1884-85	...
		Balance net interest charges ...	10,805
Total ...	10,805	Total ...	10,805

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1884-85.

Particulars.	Previous.	1884-85.	Total.
Capital.	Rs.	Rs.	Rs.
Capitalization of abatement of land revenue	...	50	50
Loss by exchange	...	...	...
Leave and pension allowances	4,149	6,592	10,741
Total ...	4,149	6,642	10,791
Revenue.			
Capitalization of abatement of land revenue	...	...	...
Loss by exchange	...	...	...
Leave and pension allowances	...	...	...
Total ...	...	...	...
Grand Total ...	4,149	6,642	10,791

IRRIGATION BRANCH. PUNJAB PROVINCE.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

SIRHIND CANAL PROJECT.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1884-85.

	Amount.		Amount.
	Rs.		Rs.
Total interest charges to end of 1883-84...	55,07,342	Net revenue realized to end of 1883-84...	—17,267
Ditto ditto for the year 1884-85...	7,64,177	Net revenue during 1884-85 ...	—1,12,728
		Balance net interest charges ...	64,01,514
Total ...	62,71,519	Total ...	62,71,519

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1884-85.

Particulars.	Previous.	1884-85.	Total.
	Rs.	Rs.	Rs.
Capital—			
Capitalization of abatement of land revenue	2,45,497	3,969	2,49,466
Loss by exchange ... ... Imperial	21,136	...	21,136
Loss by exchange ... ... Contribution	10,568	...	10,568
Leave and pension allowances Imperial	7,46,238	23,477	7,69,715
Leave and pension allowances Contribution	4,44,397	15,227	4,59,624
Total ...	14,67,836	42,673	15,10,509
Deduct loss by exchange and leave and pension allowances debited to Native States treated as direct charge and transferred to Account No. 2 of the Canal	4,54,965	15,227	4,70,192
Net debitable to Imperial ...	10,12,871	27,446	10,40,317
Revenue—			
Capitalization of abatement of land revenue	...	...	...
Loss by exchange	...	...	...
Leave and pension allowances ... Imperial	958	4,987	5,945
Leave and pension allowances ... Contribution	14	965	979
Total ..	972	5,952	6,924
Deduct leave and pension allowances debitable to Native States treated as direct charge and transferred to Account No. 3 of the Canal	14	965	979
Net debit to Imperial ...	958	4,987	5,945
Grand Total ...	10,13,829	32,433	10,46,262

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1884-85.

SWAT RIVER CANAL PROJECT.

Particulars.	Previous.	1884-85.	Total.
	Rs.	Rs.	Rs.
Capital.			
Capitalization of abatement of land revenue	3,305	25	3,330
Loss by exchange	...	...	...
Leave and pension allowances	93,257	8,375	1,01,632
Total ...	96,562	8,400	1,04,962
Revenue.			
Capitalization of abatement of land revenue	...	...	...
Loss by exchange	...	...	...
Leave and pension allowances	...	...	...
Total ...	...	...	...
Grand Total ...	96,562	8,400	1,04,962

UPPER SUTLEJ INUNDATION CANALS PROJECT.

Particulars.	Previous.	1884-85.	Total.
	Rs.	Rs.	Rs.
Capital.			
Capitalization of abatement of land revenue	45,501	...	45,501
Loss by exchange	...	...	...
Leave and pension allowances	10,647	...	10,647
Total ...	56,148	...	56,148
Revenue.			
Capitalization of abatement of land revenue	1,184	604	1,788
Loss by exchange	...	...	...
Leave and pension allowances	1,88,968	5,801	1,94,769
Total ...	1,90,152	6,405	1,96,557
Grand Total ...	2,46,300	6,405	2,52,705

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1884-85.

LOWER SUTLEJ AND CHENAB INUDN. CANALS PROJECT.

Particulars.	Previous.	1884-85.	Total.
	Rs.	Rs.	Rs.
CAPITAL.			
Capitalization of abatement of land revenue	...	...	...
Loss by exchange	...	...	...
Leave and pension allowances	2,541	...	2,541
Total ...	2,541	...	2,541
REVENUE.			
Capitalization of abatement of land revenue	50	25	75
Loss by exchange	...	...	...
Leave and pension allowances	2,39,102	10,298	2,49,400
Total ..	2,39,152	10,323	2,49,475
GRAND TOTAL ...	2,41,693	10,323	2,52,016

INDUS INUNDATION CANALS PROJECT.

Particulars.	Previous.	1884-85.	Total.
	Rs.	Rs.	Rs.
CAPITAL.			
Capitalization of abatement of land revenue	57	...	57
Loss by exchange	...	...	...
Leave and pension allowances	19,672	...	19,672
Total ...	19,729	...	19,729
REVENUE.			
Capitalization of abatement of land revenue	2,764	...	2,764
Loss by exchange	...	...	...
Leave and pension allowances	2,61,320	10,654	2,71,974
Toatal ...	2,64,084	10,654	2,74,738
GRAND TOTAL ...	2,83,813	10,654	2,94,467

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT. PUNJAB PROVINCE.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1884-85.

SHAHPUR CANALS PROJECT.

Particulars.	Previous.	1884-85.	Total.
	Rs.	Rs.	Rs.
CAPITAL.			
Capitalization of abatement of land revenue	1,592	...	1,592
Loss by exchange	...	...	...
Leave and pension allowances	279	...	279
Total	1,871	...	1,871
REVENUE.			
Capitalization of abatement of land revenue	...	...	...
Loss by exchange	...	...	...
Leave and pension allowances	1,811	169	1,980
Total	1,811	169	1,980
GRAND TOTAL ...	3,682	169	3,851

MADHOPUR WORKSHOPS PROJECT.

CAPITAL.			
Capitalization of abatement of land revenue	...	...	...
Loss by exchange	...	...	...
Leave and pension allowances	...	...	...
Total ...	...	...	...
REVENUE.			
Capitalization of abatement of land revenue	...	...	...
Loss by exchange	...	...	...
Leave and pension allowances	17,308	...	17,308
Total ...	17,308	...	17,308
GRAND TOTAL ...	17,308	...	17,308

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT. PUNJAB PROVINCE.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

MUZAFFARGARH CANALS PROJECT.

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1884-85.

Particulars.	Previous.	1884-85.	Total.
	Rs.	Rs.	Rs.
CAPITAL.			
Capitalization of abatement of land revenue	...	...	...
Loss by exchange	...	...	...
Leave and pension allowances	...	...	...
Total ...	...	...	...
REVENUE.			
Capitalization of abatement of land revenue	...	...	...
Loss by exchange	...	...	...
Leave and pension allowances	28,469	6,585	35,054
Total ...	28,469	6,585	35,054
GRAND TOTAL ...	28,469	6,585	35,054

OFFICE OF EXAMINER, P. W. A., PUNJAB :
Dated Lahore, 29th July 1885.

T. MOSS,
Examienr, P. W. Accounts, Punjab.

Public Works Department, Punjab,

IRRIGATION BRANCH.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 6.

CHARGES AGAINST SANCTIONED ESTIMATES.

IRRIGATION BRANCH. PUNJAB PROVINCE.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

WESTERN JUMNA CANAL PROJECT.

Particulars.	Charges against old sanctions that have expired.	Current Sanctions. Charges to date.	Current Sanctions. Amount of Sanctioned Estimate.	Current Sanctions. Unspent Balance of Estimate.	Total charges to date against old and current sanctions.	Remarks.
Direct Charges.						
Works ...	...	73,47,791	83,35,175	9,87,384	73,47,791	
Establishment ...	...	20,73,545	22,71,306	1,97,761	20,73,545	
Tools and Plant ...	...	1,17,786	1,84,046	66,260	1,17,786	
Suspense Balances ...	...	91,150	...	−91,150	91,150	
Total ...	...	96,30,272	1,07,90,527	11,60,255	96,30,272	
Less—Receipts on Capital Account	...	9,839	23	−9,816	9,839	
Net Total ...	...	96,20,433	(*a*) 1,07,90,504	11,70,071	96,20,433	(*a*). As per *Gazette of India* dated 17th January 1885.
Indirect Charges.						
Capitalized Abatement of Land Revenue ...	...	79,808	1,65,380	85,572	79,808	
Loss by Exchange ...	...	...	...	...	...	
Leave and Pension Allowances ...	...	4,17,995	3,85,040	−32,955	4,17,995	
Total ...	...	4,97,803	5,50,420	52,617	4,97,803	
Interest on Direct Outlay while work is under construction ...	...	65,50,935	20,41,200	-45,09,735	65,50,935	
Grand Total ...	...	1,66,69,171	1,33,82,124	-32,87,047	1,66,69,171	

BARI DOAB CANAL PROJECT.

Particulars.	Charges against old sanctions that have expired.	Current Sanctions. Charges to date.	Current Sanctions. Amount of Sanctioned Estimate.	Current Sanctions. Unspent Balance of Estimate.	Total charges to date against old and current sanctions.	Remarks.
Direct Charges.						
Works ...	...	1,20,89,034	1,24,54,249	3,65,215	1,20,89,034	
Establishment ...	...	27,10,456	27,94,575	84,119	27,10,456	
Tools and Plant ...	...	4,81,004	4,89,619	8,615	4,81,004	
Suspense Balances ...	...	60,172	75,035	14,863	60,172	
Total ...	...	1,53,40,666	1,58,13,478	4,72,812	1,53,40,666	
Less—Receipts on Capital Account ...	...	15,666	14,878	−788	15,666	
Net Total ...	...	1,53,25,000	1,57,98,600	4,73,600	1,53,25,000	
Indirect Charges.						
Capitalized Abatement of land revenue ...	...	11,142	...	−11,142	11,142	
Loss by Exchange ...	...	...	...	...	...	
Leave and Pension Allowances ...	...	6,11,036	...	−6,11,036	6,11,036	
Total ...	...	6,22,178	...	−6,22,178	6,22,178	
Interest on Direct Outlay while work is under construction ...	...	1,63,97,222	...	-1,63,97,222	1,63,97,222	
Grand Total. ...	...	3,23,44,400	(*a*) 1,57,98,600	-1,65,45,800	3,23,44,400	(*a*). Revised Project sanctioned in Government of India's No. 293 I, dated 27th October 1884.

IRRIGATION BRANCH. PUNJAB PROVINCE.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 6.--STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

CHENAB CANAL PROJECT.

Particulars.	Charges against old sanctions that have expired.	Current Sanctions. Charges to date.	Current Sanctions. Amount of Sanctioned Estimate.	Current Sanctions. Unspent Balance of Estimate.	Total charges to date against old and current sanctions.	Remarks.
Direct Charges.						
Works ...	...	5,94,892	24,07,882	18,12,990	5,94,892	
Establishment ...	...	1,20,818	4,61,489	3,40,671	1,20,818	
Tools and Plant ...	...	25,351	72,226	66,875	25,351	
Suspense Balances ...	...	53,156	...	−53,156	53,156	
Total ...	...	7,94,217	29,41,597	21,47,380	7,94,217	
Less—Receipts on Capital Account	...	877	6,008	5,131	877	
Net Total ...	...	7,93,340	29,35,589	21,42,249	7,93,340	
Indirect Charges.						
Capitalized Abatement of Land Revenue ...	...	23,228	67,522	44,294	23,228	
Loss by Exchange ...	...	...	...	...	...	
Leave and Pension Allowances ...	...	16,792	56,363	39,571	16,792	
Total ...	...	40,020	1,23,885	83,865	40,020	
Interest on Direct Outlay while work is under construction ...	...	27,654	1,34,377	1,06,723	27,654	* Project sanctioned in Secretary of State's Despatch No. 45, dated 28th August 1884.
Grand Total ...	...	8,61,014	*31,93,851	23,32,837	8,61,014	

LOWER SOHAG AND PARA CANAL PROJECT.

Particulars.	Charges against old sanctions that have expired.	Charges to date.	Amount of Sanctioned Estimate.	Unspent Balance of Estimate.	Total charges to date against old and current sanctions.	Remarks.
Direct Charges.						
Works ...	...	1,82,451	5,60,860	3,78,409	1,82,451	
Establishment ...	...	68,895	1,50,418	81,523	68,895	
Tools and Plant ...	...	5,902	16,826	10,924	5,902	
Suspense Balances ...	...	13,217	...	−13,217	13,217	
Total ...	...	2,70,465	7,28,104	4,57,639	2,70,465	
Less—Receipts on Capital Account	...	76	...	−76	76	
Net Total ...	...	2,70,389	7,28,104	4,57,715	2,70,389	
Indirect Charges.						
Capitalized Abatement of Land Revenue ...	...	...	92,631	92,631	...	
Loss by Exchange ...	...	...	...	...	...	
Leave and Pension Allowances ...	...	9,472	21,118	11,646	9,472	
Total ...	...	9,472	1,13,749	1,04,277	9,472	
Interest on Direct Outlay while work is under construction ...	...	9,214	44,578	35,364	9,214	* Project sanctioned in Secretary of State's Despatch No. 46, dated 28th August 1884.
Grand Total ...	...	2,89,075	*8,86,431	5,97,356	2,89,075	

IRRIGATION BRANCH. PUNJAB PROVINCE.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

SIDHNAI CANAL PROJECT.

Particulars.	Charges against old sanctions that have expired.	Current Sanctions. Charges to date.	Current Sanctions. Amount of sanctioned Estimate.	Current Sanctions. Unspent Balance of Estimate.	Total charges to date against old and current sanctions.	Remarks.
Direct Charges.						
Works ...	..	2,32,091	5,84,937	3,52,846	2,32,091	
Establishment ...	...	77,409	1,46,240	68,831	77,409	
Tools and Plant ...	...	20,191	17,550	—2,641	20,191	
Suspense Balances ...	...	7,723	...	—7,723	7,723	
Total ...	...	3,37,414	7,48,727	4,11,313	3,37,414	
Less—Receipts on Capital Account	...	121	...	—121	121	
Net Total ...	...	3,37,293	7,48,727	4,11,434	3,37,293	
Indirect Charges.						
Capitalized abatement of land revenue ...	...	50	5,280	5,230	50	
Loss by exchange ...	..	...	...	...	...	
Leave and pension allowances ...	...	10,741	20,473	9,732	10,741	
Total ...	...	10,791	25,753	14,962	10,791	
Interest on Direct Outlay while work is under construction ...	...	10,805	1,52,974	1,42,169	10,805	(*a*) Project sanctioned in Secretary of State's Despatch No. 47, dated 28th August 1884.
Grand Total ...	...	3,58,889	(*a*) 9,27,454	5,68,565	3,58,889	

SIRHIND CANAL PROJECT.

Particulars.	Charges against old sanctions that have expired.	Current Sanctions. Charges to date.	Current Sanctions. Amount of sanctioned Estimate.	Current Sanctions. Unspent Balance of Estimate.	Total charges to date against old and current sanctions.	Remarks.
Direct Charges.						
Works ...	...	2,01,62,509	2,39,38,315	37,75,806	2,01,62,509	
Establishment ...	...	60,42,049	59,84,784	—57,265	60,42,049	
Leave and pension allowances ...	...	4,59,624	...	—4,59,624	4,59,624	
Tools and Plant ...	...	36,66,993	40,92,649	4,25,656	36,66,993	
Loss by exchange ...	...	10,568	...	—10,568	10,568	
Suspense Balances ...	...	4,53,813	...	—4,53,813	4,53,813	
Total ...	...	3,07,95,556	3,40,15,748	32,20,192	3,07,95,556	
Less—Receipts on Capital Account	...	1,70,774	5,49,628	3,78,854	1,70,774	
Net Total ...	...	3,06,24,782	3,34,66,120	28,41,338	3,06,24,782	
Indirect Charges.						Rs.
Capitalized abatement of land revenue ...	...	2,49,466	3,98,031	1,48,565	2,49,466	(*a*) Sanctioned in Secretary of State's Despatch No. 60, dated 3rd Novr. 1881 ... 4,06,94,026
Loss by exchange ...	...	21,136	31,704	10,568	21,136	
Leave and pension allowances ...	...	7,69,715	10,19,735	2,50,020	7,69,715	
Total ...	...	10,40,317	14,49,470	4,09,153	10,40,317	
Interest on Direct Outlay while work is under construction ...	...	62,71,519	58,10,140	—4,61,379	62,71,519	Do. in Govt. of India's No. 10 I, dated 11th Jany. 1882 ... 31,704
Grand Total ...	...	3,79,36,618	(*a*) 4,07,25,730	27,89,112	3,79,36,618	4,07,25,730

IRRIGATION BRANCH. PUNJAB PROVINCE.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

SWAT RIVER CANAL PROJECT.

Particulars.	Charges against old sanctions that have expired.	Current Sanctions. Charges to date.	Current Sanctions. Amount of Sanctioned Estimate.	Current Sanctions. Unspent Balance of Estimate.	Total charges to date against old and current sanctions.	Remarks.
Direct Charges.						
Works ...	...	23,69,786	26,24,132	2,54,346	23,69,786	
Establishment ...	...	5,46,124	7,63,753	2,17,629	5,46,124	
Tools and Plant ...	...	96,942	1,57,925	60,983	96,942	
Suspense Balances ...	...	23,688	...	−23,688	23,688	
Total ...	...	30,36,540	35,45,810	5,09,270	30,36,540	
Less—Receipts on Capital Account	...	4,519	...	−4,519	4,519	
Net Total ...	...	30,32,021	35,45,810	5,13,789	30,32,021	
Indirect Charges.						
Capitalized Abatement of Land Revenue ...	...	3,330	57,268	53,938	3,330	
Loss by Exchange ...	...	...	...	...	...	
Leave and Pension Allowances ...	...	1,01,632	1,22,200	20,568	1,01,632	
Total ...	...	1,04,962	1,79,468	74,506	1,04,962	
Interest on Direct Outlay while work is under construction ...	...	...	5,58,957	5,58,957	...	* Revised Project sanctioned in Government of India No. 196 I, dated 10th May 1884.
Grand Total ...	...	31,36,983	*42,84,235	11,47,252	31,36,983	

UPPER SUTLEJ INUNDATION CANALS PROJECT.

Particulars.	Charges against old sanctions that have expired.	Current Sanctions. Charges to date.	Current Sanctions. Amount of Sanctioned Estimate.	Current Sanctions. Unspent Balance of Estimate.	Total charges to date against old and current sanctions.	Remarks.
Direct Charges.						
Works ...	4,45,229	...	...	...	4,45,229	
Establishment ...	62,804	...	...	...	62,804	
Tools and Plant ...	13,150	...	...	...	13,150	
Suspense Balances ...	...	...	...	...	...	
Total ...	5,21,183	...	...	...	5,21,183	
Less—Receipts on Capital Account	80	...	...	...	80	
Net Total ...	5,21,103	...	...	...	5,21,103	
Indirect Charges.						
Capitalized Abatement of Land Revenue ...	45,501	...	...	...	45,501	
Loss by Exchange ...	...	...	...	...	...	
Leave and Pension Allowances ...	10,647	...	...	...	10,647	
Total ...	56,148	...	...	...	56,148	
Interest on Direct Outlay while work is under construction ...	...	...	...	...	...	
Grand Total ...	5,77,251	...	...	...	5,77,251	

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT. PUNJAB PROVINCE.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

LOWER SUTLEJ AND CHENAB INUNDATION CANALS PROJECT.

Particulars.	Charges against old sanctions that have expired.	Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.
		Charges to date.	Amount of Sanctioned Estimate.	Unspent Balance of Estimate.		
Direct Charges.						
Works ...	96,101	...	...	...	96,101	
Establishment ...	10,836	...	...	...	10,836	
Tools and Plant ...	625	...	...	...	625	
Suspense Balances ..	1,013	...	...	...	1,013	
Total ...	1,08,575	...	...	...	1,08,575	
Less—Receipts on Capital Account	1	...	...	...	1	
Net Total ...	1,08,574	...	...	...	1,08,574	
Indirect Charges.						
Capitalized Abatement of Land Revenue ...	...	...	...	...	...	
Loss by Exchange ...	...	...	...	...	...	
Leave and Pension Allowances ...	2,541	...	...	...	2,541	
Total ...	2,541	...	...	...	2,541	
Interest on Direct Outlay while work is under construction ...	...	...	...	...	...	
Grand Total ...	1,11,115	...	...	...	1,11,115	

INDUS INUNDATION CANALS PROJECT.

Particulars.	Charges against old sanctions that have expired.	Charges to date.	Amount of Sanctioned Estimate.	Unspent Balance of Estimate.	Total charges to date against old and current sanctions.	Remarks.
Direct Charges.						
Works ...	6,63,648	...	...	...	6,63,648	
Establishment ...	87,204	...	...	...	87,204	
Tools and Plant ...	670	...	...	...	670	
Suspense Balances ...	...	...	...	...	...	
Total ...	7,51,522	...	...	...	7,51,522	
Less—Receipts on Capital Account	63,616	...	...	...	63,616	
Net Total ...	6,87,906	...	...	...	6,87,906	
Indirect Charges.						
Capitalized Abatement of land revenue ...	57	...	...	...	57	
Loss by Exchange ...	...	...	...	...	...	
Leave and Pension Allowances ...	19,672	...	...	...	19,672	
Total ...	19,729	...	...	...	19,729	
Interest on Direct Outlay while work is under construction ...	...	...	...	...	...	
Grand Total ...	7,07,635	...	...	...	7,07,635	

IRRIGATION BRANCH. **PUNJAB PROVINCE.**

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

SHAHPUR CANALS PROJECT.

Particulars.	Charges against old sanctions that have expired.	Current Sanctions. Charges to date.	Current Sanctions. Amount of Sanctioned Estimate.	Current Sanctions. Unspent Balance of Estimate.	Total charges to date against old and current sanctions.	Remarks.
Direct Charges.						
Works ...	37,640	...	...	...	37,640	
Establishment ...	1,228	...	...	...	1,228	
Tools and Plant ...	...	...	...	...	...	
Suspense Balances ...	...	...	...	...	...	
Total ...	38,868	...	...	...	38,868	
Less—Receipts on Capital Account	...	...	...	...	...	
Net Total ...	38,868	...	...	...	38,868	
Indirect Charges.						
Capitalized abatement of land revenue ...	1,592	...	...	...	1,592	
Loss by exchange ...	...	...	...	...	...	
Leave and pension allowances ...	279	...	...	...	279	
Total ...	1,871	...	...	...	1,871	
Interest on Direct Outlay while work is under construction ...	...	...	...	...	...	
Grand Total ...	40,739	...	...	...	40,739	

MADHOPUR WORKSHOPS PROJECT.

Particulars.	Charges against old sanctions that have expired.	Current Sanctions. Charges to date.	Current Sanctions. Amount of Sanctioned Estimate.	Current Sanctions. Unspent Balance of Estimate.	Total charges to date against old and current sanctions.	Remarks.
Direct Charges.						
Works ...	2,55,904	...	...	...	2,55,904	
Establishment ...		...	...	...	...	
Tools and Plant ...	4,13,293	...	...	...	4,13,293	
Suspense Balances ...	...	...	...	...	...	
Total ...	6,69,197	...	...	...	6,69,197	
Less—Receipts on Capital Account	2,12,022	...	...	...	2,12,022	
Net Total ...	4,57,175	...	...	...	4,57,175	
Indirect Charges.						
Capitalized abatement of land revenue ...	...	...	...	...	...	
Loss by exchange ...	...	...	...	...	...	
Leave and pension allowances ...	...	...	...	...	...	
Total ...	...	...	...	...	...	
Interest on Direct Outlay while work is under construction ...	...	...	...	...	...	
Grand Total ...	4,57,175	...	...	...	4,57,175	

IRRIGATION BRANCH. PUNJAB PROVINCE.

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1884-85.

ABDUL RAHMAN KHAN'S CANAL PROJECT.

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

Particulars.	Charges against old sanctions that have expired.	Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.
		Charges to date.	Amount of Sanctioned Estimate.	Unspent Balance of Estimate.		
Direct Charges.						
Works	33,338	...	...	...	33,338	
Establishment	1,757	...	...	...	1,757	
Tools and Plant	...	...	...	...	...	
Suspense Balances ...	...	...	...	...	...	
Total ...	35,095	...	...	...	35,095	
Less—Receipts on Capital Account	...	...	...	...	...	
Net Total ...	...	...	...	...	...	
Indirect Charges.						
Capitalized Abatement of Land Revenue	...	...	...	...	...	
Loss by Exchange ...	...	...	...	...	...	
Leave and Pension Allowances	...	...	...	...	...	
Total ...	...	...	...	...	...	
Interest on Direct Outlay while work is under construction	...	...	...	...	...	
Grand Total ...	35,095	...	...	...	35,095	

T. MOSS,

Examiner, Public Works Accounts, Punjab.